

# SERVICE MANUAL

**marantz**

model 2250B

*Stereophonic Receiver*

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## INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2250B Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

### 1. P.W. Board

As can be seen from the circuit diagram the chassis of Model 2250B consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. FM Front End	Mounted on P.W. Board, P 100
2. AM Tuner	Mounted on P.W. Board, P 150
3. FM-IF	Mounted on P.W. Board, P 200
4. MPX	Mounted on P.W. Board, P 300
5. ANT. Muting VR	Mounted on P.W. Board, PU01
6. Dolby Level	Mounted on P.W. Board, PC01
7. Phone Amp.	Mounted on P.W. Board, P 400
8. Dial Lamp	Mounted on P.W. Board, PZ01
9. Monitor, SW	Mounted on P.W. Board, PT01
10. Function Lamp	Mounted on P.W. Board, PY01
11. Pre Tone Amp.	Mounted on P.W. Board, PE01
12. Filter, SP SW	Mounted on P.W. Board, PH01
13. Power Amp.	Mounted on P.W. Board, P 700
14. Power Supply	Mounted on P.W. Board, P 800



## 2. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 2250B Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment.
Test Loop		Used with AM signal generator.
FM Signal Generator	Less than 0.3% distortion	Signal source for FM alignment.
Stereo Modulator	Less than 0.3% distortion	Stereo separation alignment and trouble shooting.
Frequency Counter		MPX Oscillator adjustment (VCO).
Audio Oscillator	Weston Model CVO-100P, less than 0.02% residual distortion is required.	Sinewave and squarewave signal source.
Oscilloscope	High sensitivity with DC horizontal and vertical amplifiers	Waveform analysis and trouble shooting and ASO alignment.
VTVM	With AC, DC, RF range	Voltage measurements.
Circuit Tester		Trouble shooting.
AC Wattmeter	Simpson, Model 390	Monitors primary power to amplifier.
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition.
Line Voltmeter	Commercial Grade (0-150V AC)	Monitors potential of primary power to amplifier.
Variable Autotransformer (0-140V AC, 10 amps)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.
Shorting Plug	Use phono plug with 600 ohm across center pin and shell.	Shorts amplifier input to eliminate noise pickup.
Output load (8 ohms, $\pm 1\%$ 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination.
Output load (4 ohms, $\pm 1\%$ 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination.

**Table 1. Test Equipment Required for Servicing**

### 3. AM ALIGNMENT PROCEDURE

#### 3.1 AM IF Alignment

1. Connect a sweep generator to the J153 and an alignment scope to the test point B.
2. Rotate each core of IF transformer L153 for maximum height and flat top symmetrical response.

#### 3.2 AM Frequency Range and Tracking Alignment

1. Set AM signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L152 for maximum audio output.
2. Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor for maximum audio output.
3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the generator to 600 kHz and tune the receiver to the same frequency and adjust a slug core of AM ferrite rod antenna and RF coil L151 for maximum output.
5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust both trimming capacitors of antenna and RF tuned circuit for maximum output.
6. Repeat steps 4 and 5 until no further adjustment is necessary.

Note: During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

#### 3.3 AM Signal Strength Meter Alignment

Set an AM signal generator to 1000 kHz at  $5\mu\text{V}$ , and adjust R178 so that the signal strength meter may read 90% of the full scale.

### 4. FM ALIGNMENT PROCEDURE

1. Connect an FM signal generator to the FM ANTENNA terminals and an oscilloscope and an audio distortion analyzer to the TAPE OUTPUT jacks on the rear panel.
2. Set the FM SG to 87 MHz and provide about 3 to  $5\mu\text{V}$ . Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of oscillator coil L104 to obtain maximum audio output.
3. Set the FM SG to 109 MHz and provide about 3 to  $5\mu\text{V}$  output. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C106 for maximum output.
4. Repeat steps 2 and 3 until no further adjustment is necessary.
5. Set the FM SG to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the antenna coil L101, RF coils L102 and L103 and IF transformer L105 for minimum audio distortion.
6. Set the FM SG to 106 MHz and tune the receiver to the same frequency. Adjust the trimming capacitor C102, C104 and C105 for minimum distortion.
7. Repeat steps 5 and 6 until no further adjustment is necessary.
8. Adjust the secondary core (upper) of discriminator transformer L201 so that the center tuning meter pointer indicates its center at no signal applied. Set the FM SG to 98 MHz and increase its output level 1  $\mu\text{V}$  and tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.  
Adjust the primary core (lower) of L201 for minimum distortion.
9. Set the FM SG to 98 MHz at 1000  $\mu\text{V}$ , and adjust R374 so that the signal strength meter may read 90% of the full scale.

## 5. STEREO SEPARATION ALIGNMENT

1. Set the FM SG to provide  $1\text{ }\mu\text{V}$  at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
2. Turn the FM SG modulation off (with the pilot signal turned off), connect a frequency counter to test point J310, and adjust R311 so that the frequency counter may precisely read 19 kHz.
3. Modulate the FM SG with stereo composite signal consisting only of subchannel signal (of course a pilot signal must be included).
4. Adjust the trimming resistor R301 for maximum and same separation in both channels.

## 6. MUTING CIRCUIT ALIGNMENT

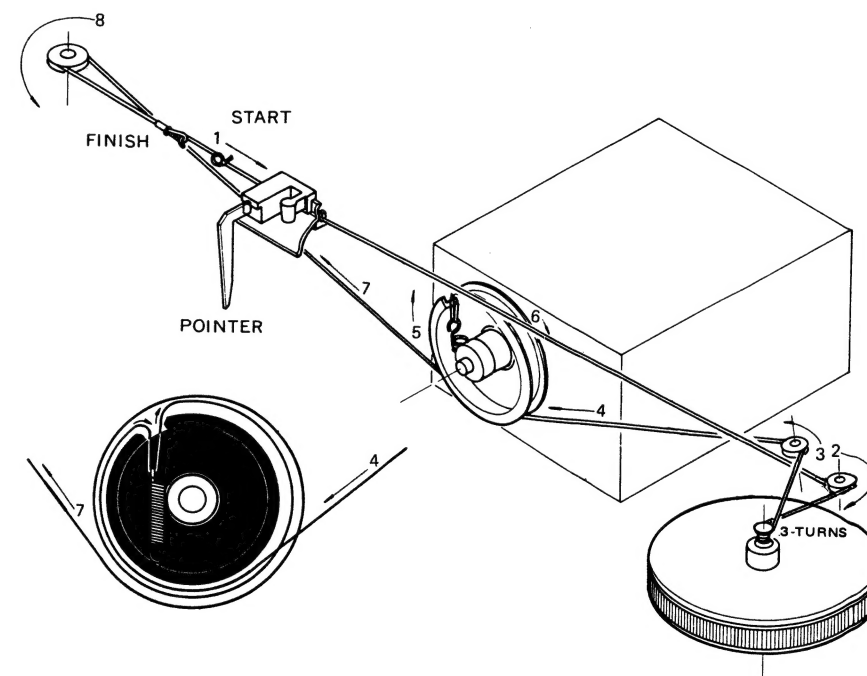
1. Connect a VTVM across the resistor R363 and adjust the resistor R363 until the meter reads 0.75V DC at no signal.
2. Set the FM SG to provide 1  $\mu$ V at 98 MHz and tune the receiver to the same frequency correctly.
3. Turn on MUTING push switch. Shift the FM signal generator frequency to plus and minus and note both plus and minus shifted frequencies at which undesirable audio side responses are muted out. Adjust the R363 so that the same shifted frequencies mute the undesirable side response.
4. Adjust R362 for proper frequency shift at which the muting circuit operates.

## 7. DOLBY FM TAPE OUTPUT SETTING

1. Set the modulation of FM SG to 400 Hz, 50% ( $\pm 37.5$  kHz Dev.)
2. Set the FM SG to provide 1  $\mu\text{V}$  at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
3. Turn on DOLBY FM push switch. Set the semifixed resistors RC01 and RC02 so that the output of the TAPE OUTPUT terminals R and L become 580 mV at VTVM.

## 8. AUDIO ADJUSTMENT

1. Voltage adjustment  
Connect a DC voltmeter between pin terminal 804 and 805, and adjust the trimming resistor R806 for 35V DC.
2. Main Amplifier DC off-set alignment  
Connect a DC voltmeter with 0.5 or 1 V range between the speaker terminals and adjust the trimming resistor R707 for "zero" DC output on the meter.  
Repeat the same procedure for the other channel.  
Note: During this alignment no load should be connected to the speaker terminals.
3. Idle-current adjustment  
Connect a VTVM between pin terminals 708 and 710. Next, adjust the trimming resistor R719 so the VTVM reads 10mV DC. Repeat the same procedure for the other channel.
4. Check DC off-set voltage aligned in the procedure 2 and if any DC output is observed on the DC voltmeter, adjust the R707 again for "zero" output.
5. Phono-amplifier adjustment  
Connect an oscilloscope to the TAPE OUT jacks and an audio signal generator to the PHONO jacks. Place the selector switch in the PHONO position. Increase 1 kHz audio signal gradually until a slight clipping on top of the sine-wave is observed on the oscilloscope. Adjust the trimming resistor R408 for equal clipping level.  
For the other channel adjust R409.



### Figure 1. Dial Stringing





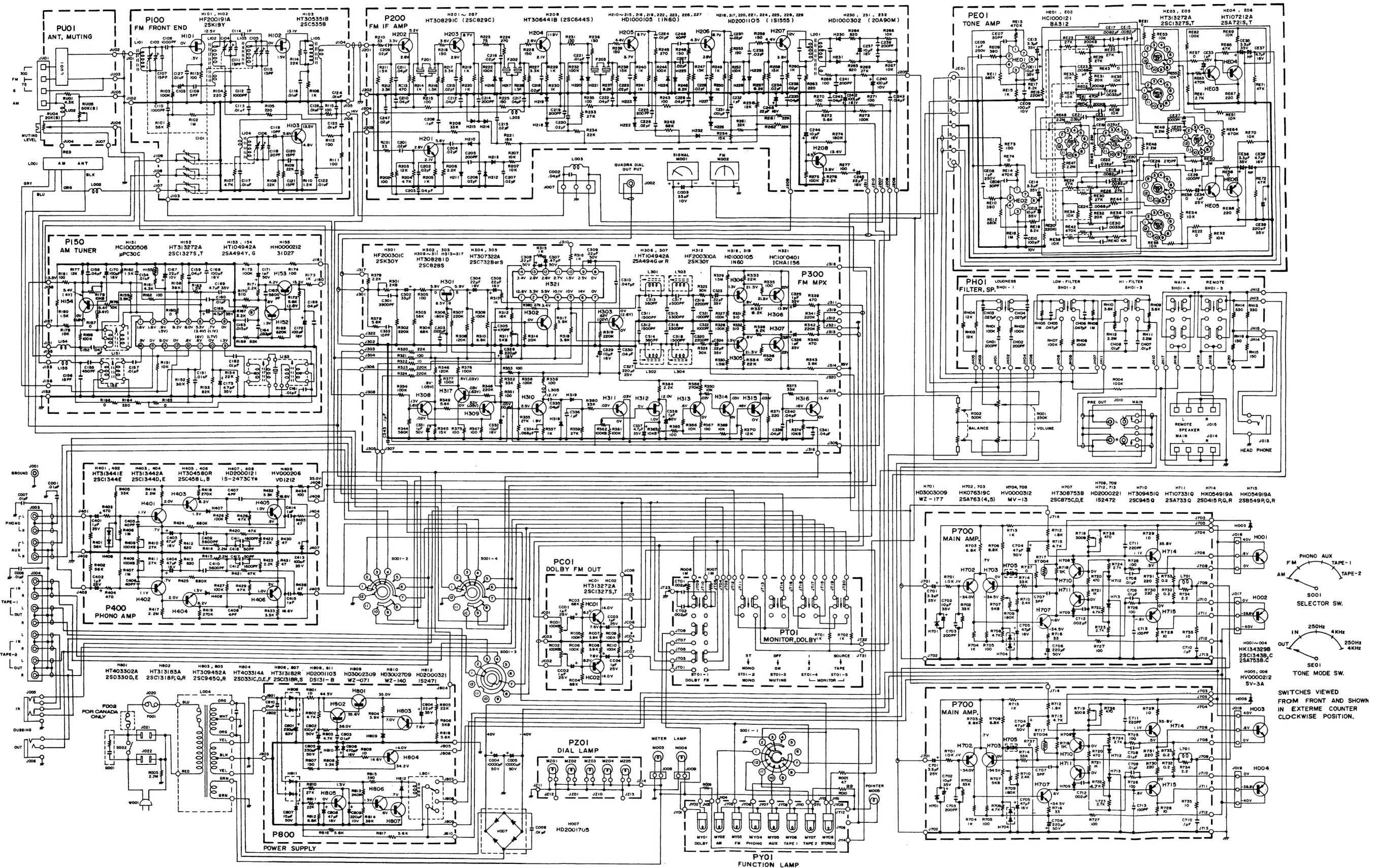
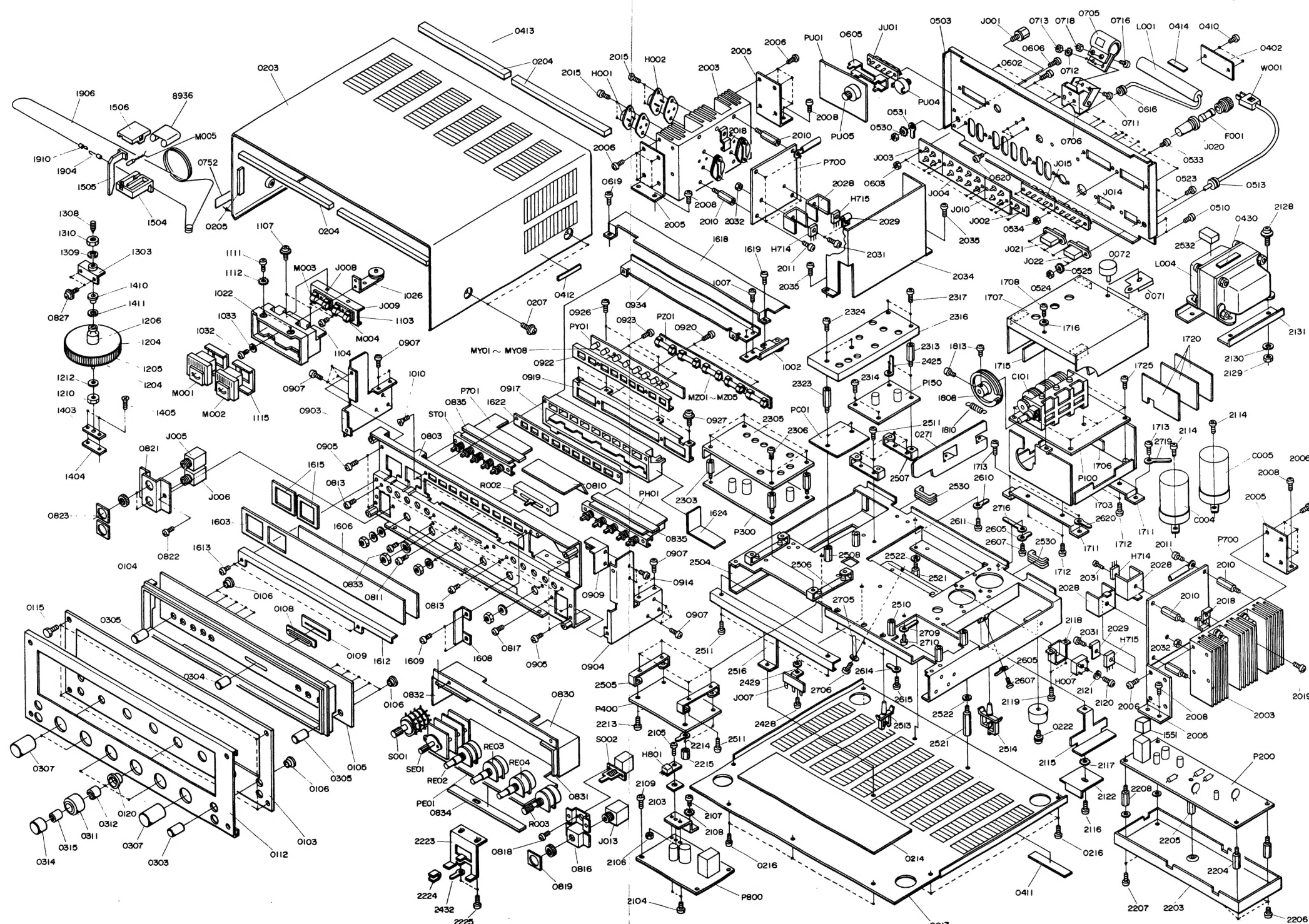


Figure 3. Schematic Diagram



**Figure 4. Exploded Mechanical Diagram**



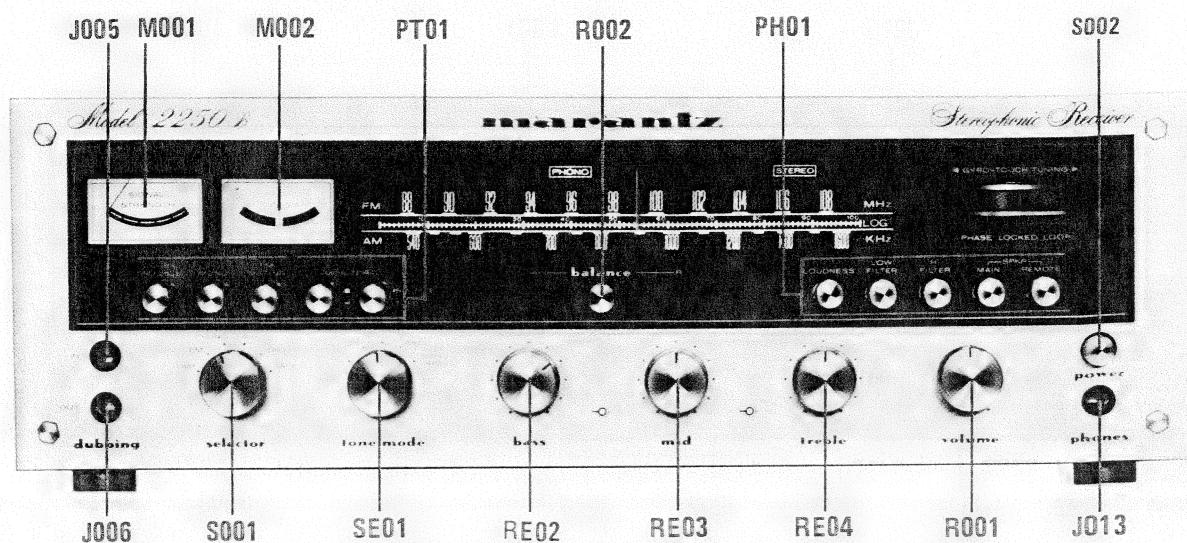


Figure 5. Front Panel Adjustments and Component Locations

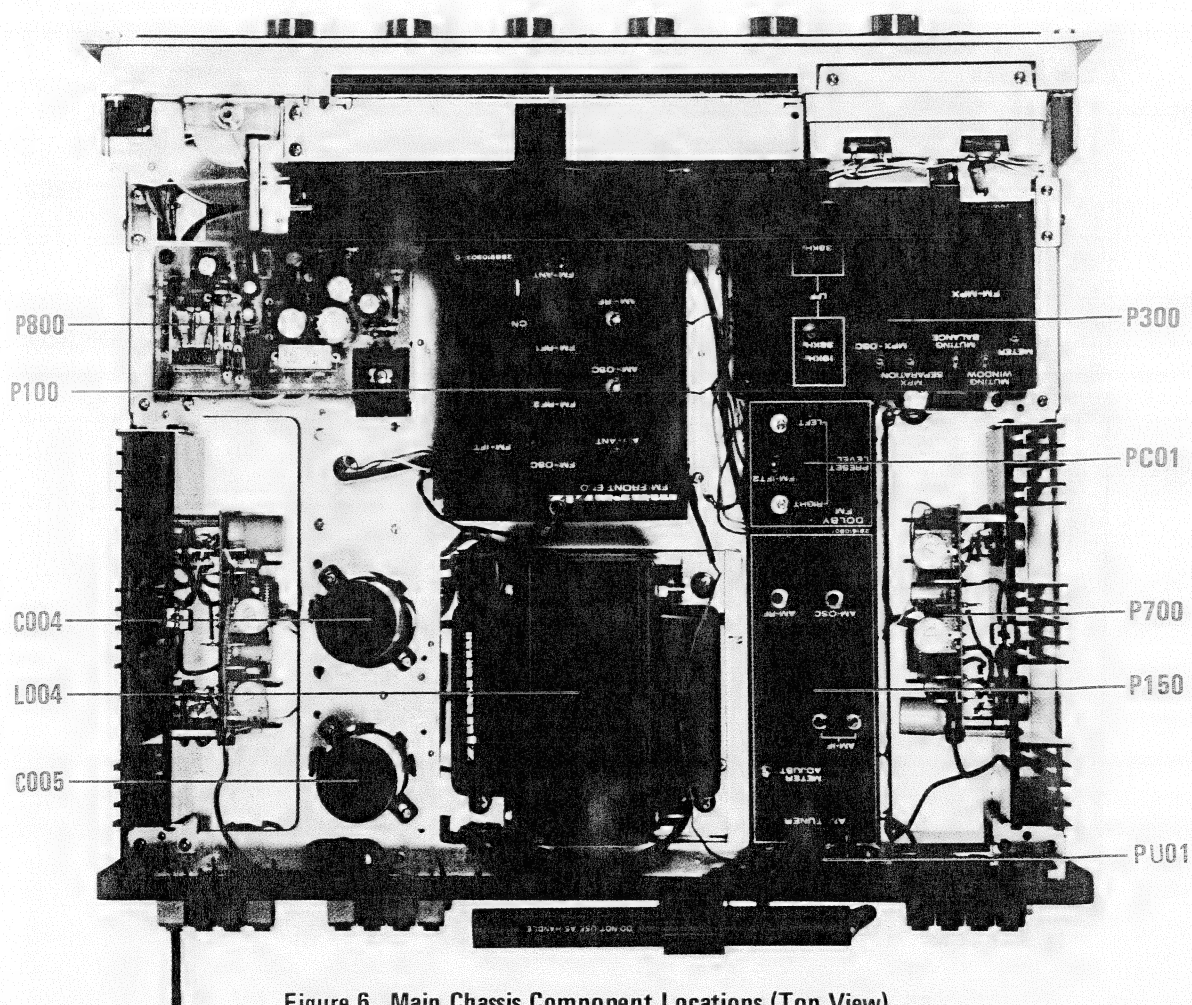


Figure 6. Main Chassis Component Locations (Top View)

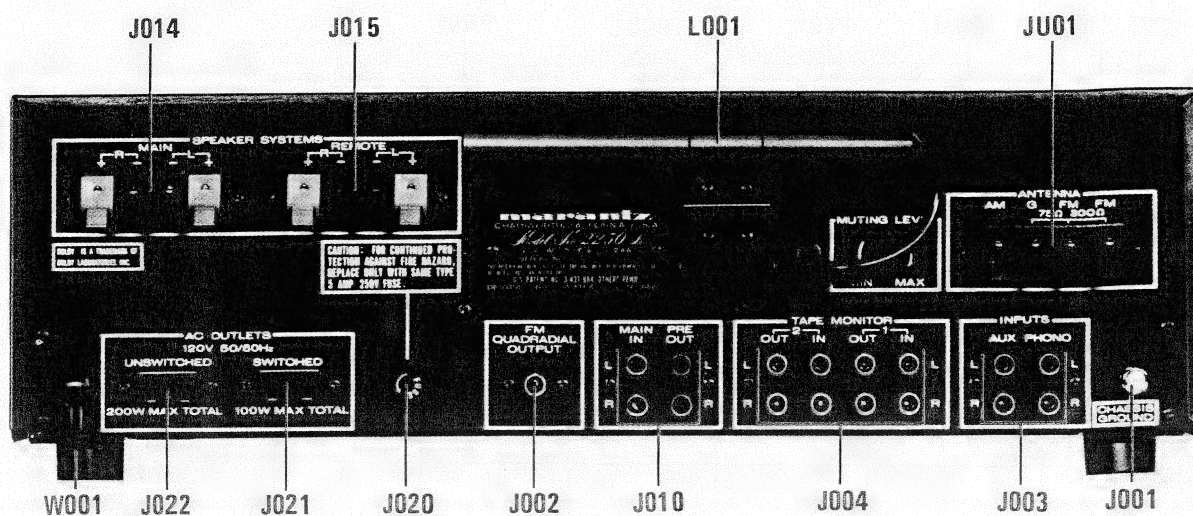


Figure 7. Rear Panel Adjustment and Component Locations

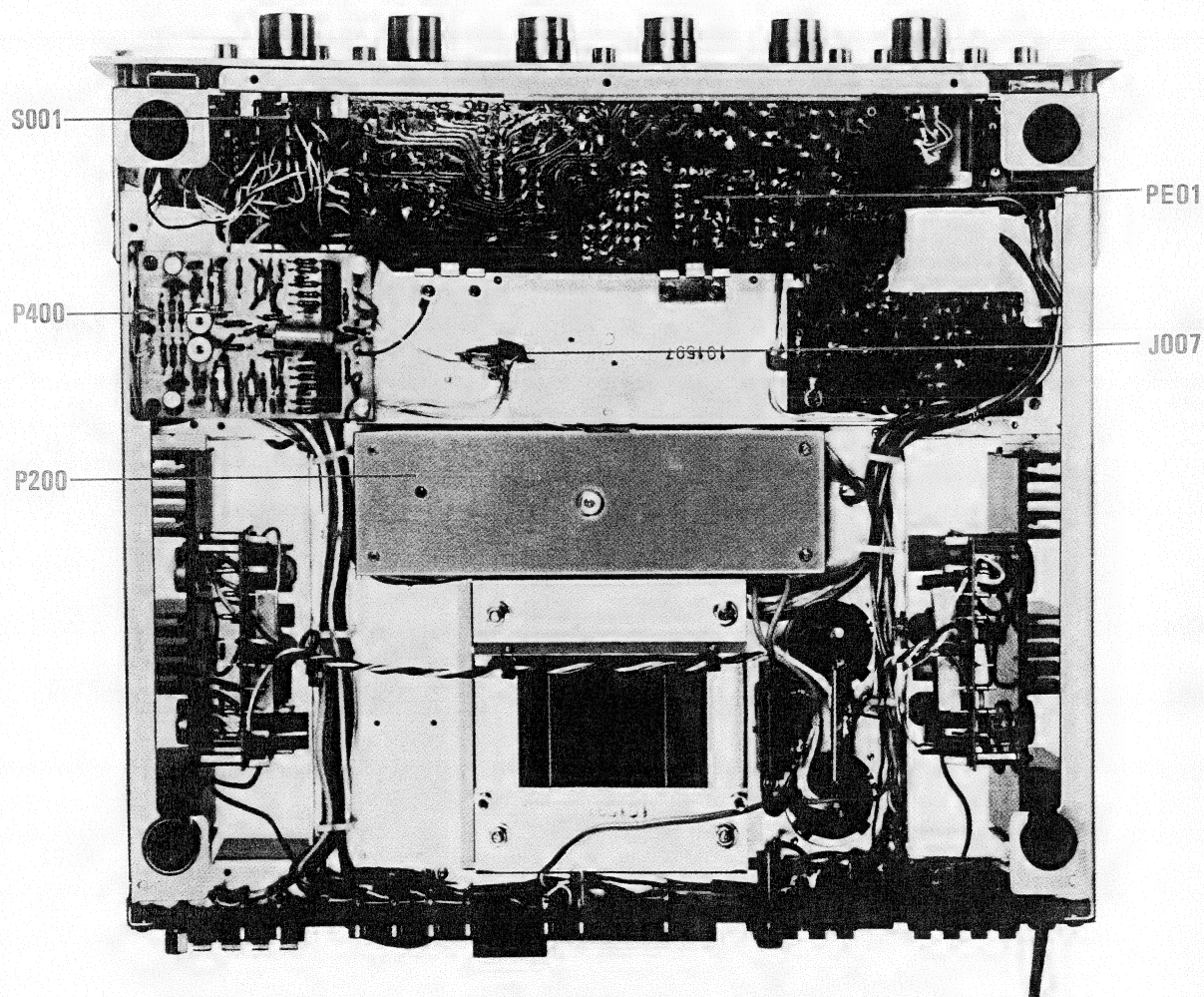


Figure 8. Main Chassis Component Locations (Bottom View)



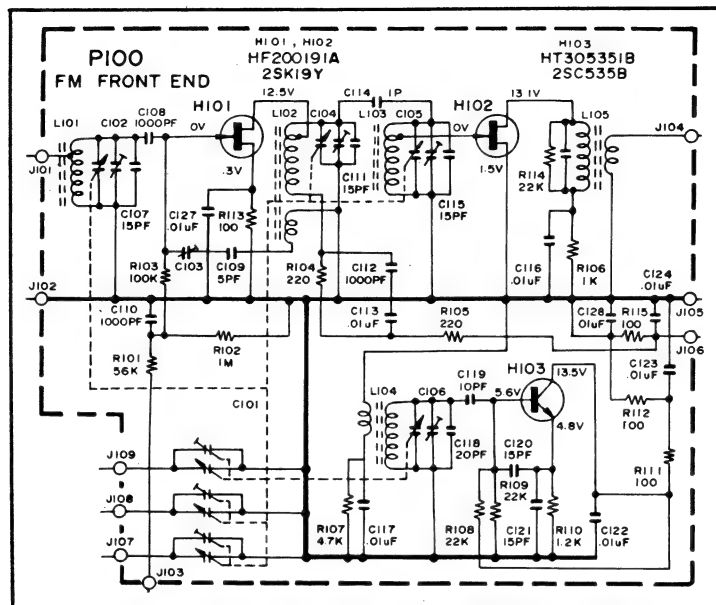


Figure 9. FM Front End (P100) Schematic Diagram

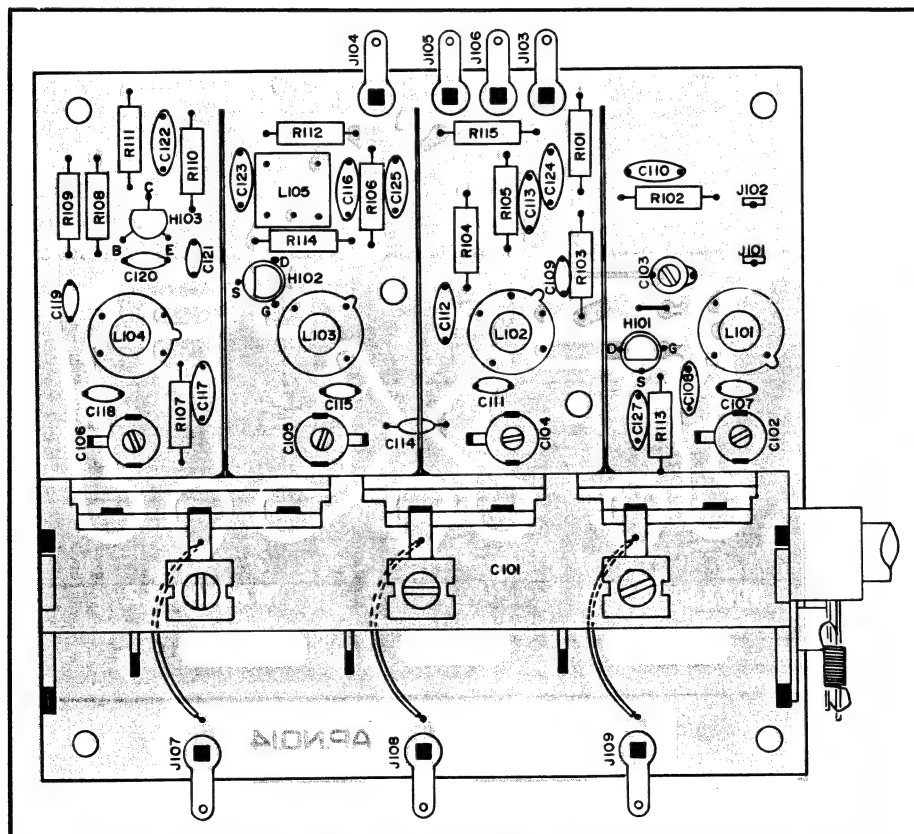


Figure 10. FM Front End (P100) Component Locations

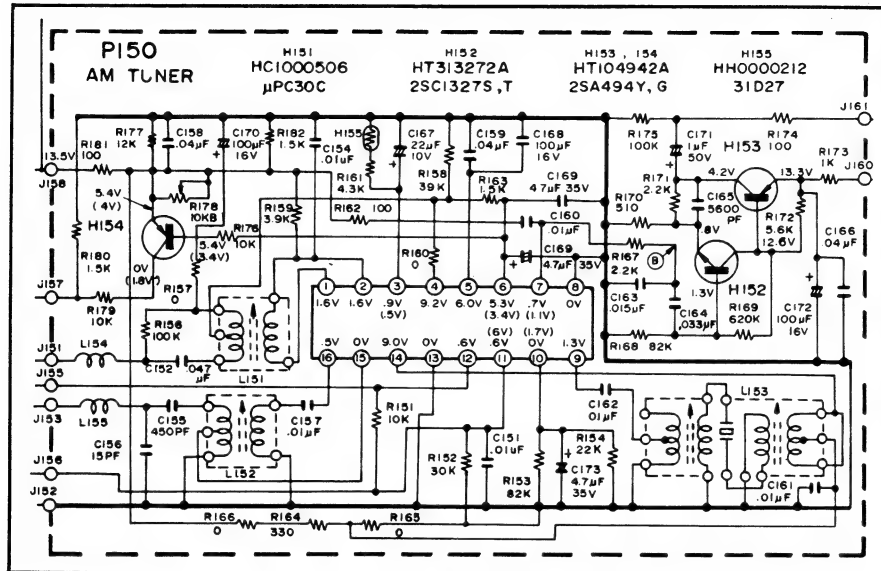


Figure 11. AM Tuner (P150) Schematic Diagram

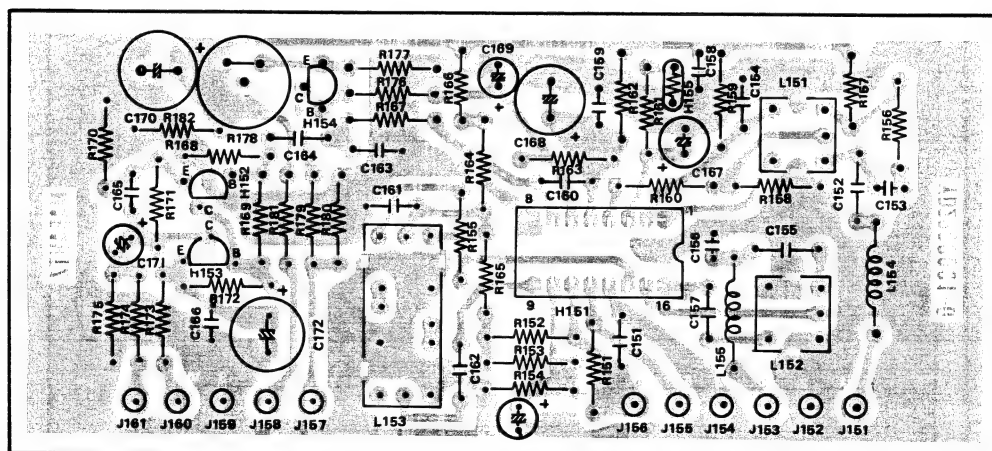


Figure 12. AM Tuner (P150) Component Locations

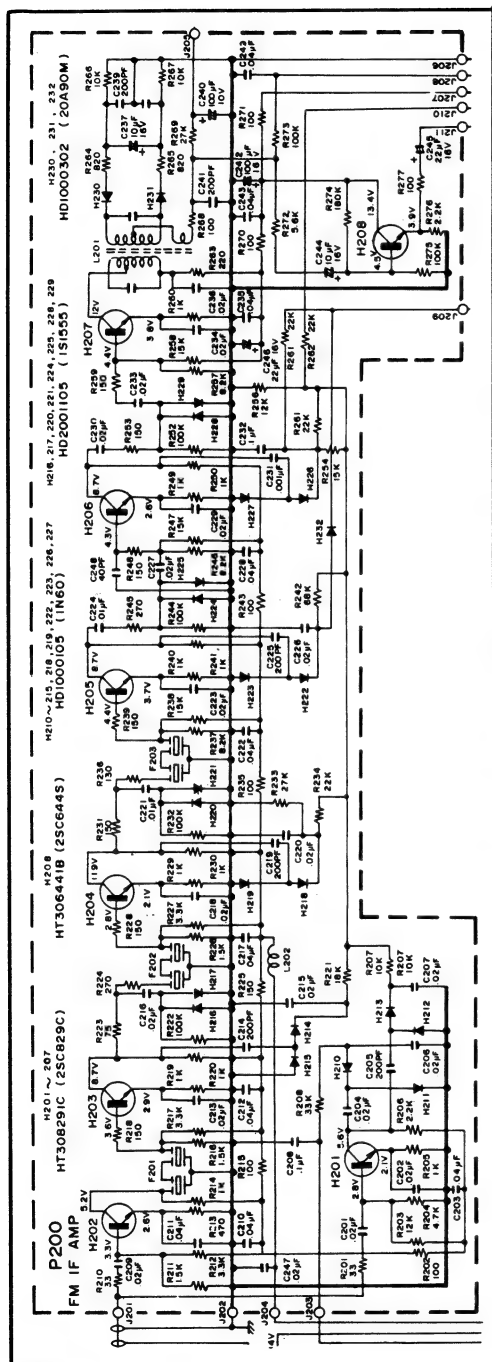


Figure 13. FM IF (P200) Schematic Diagram

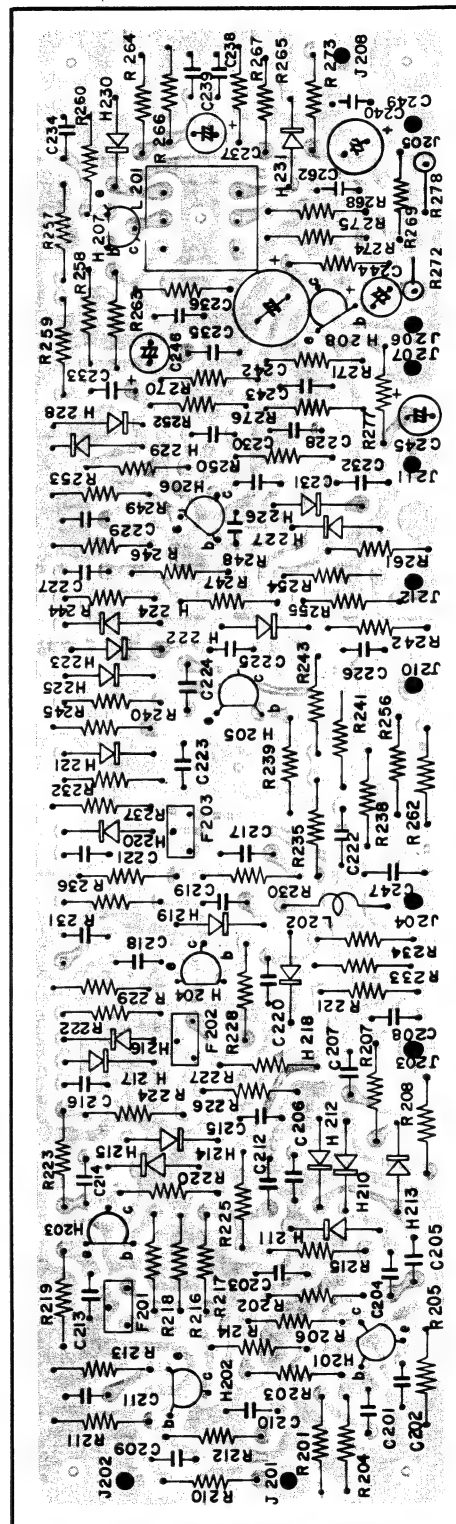


Figure 14. FM IF (P200) Component Locations

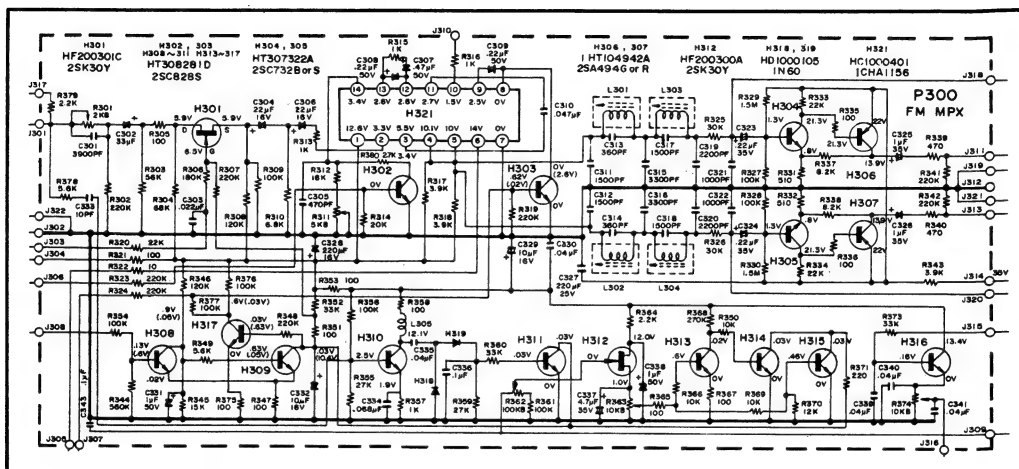


Figure 15. FM MPX (P300) Schematic Diagram

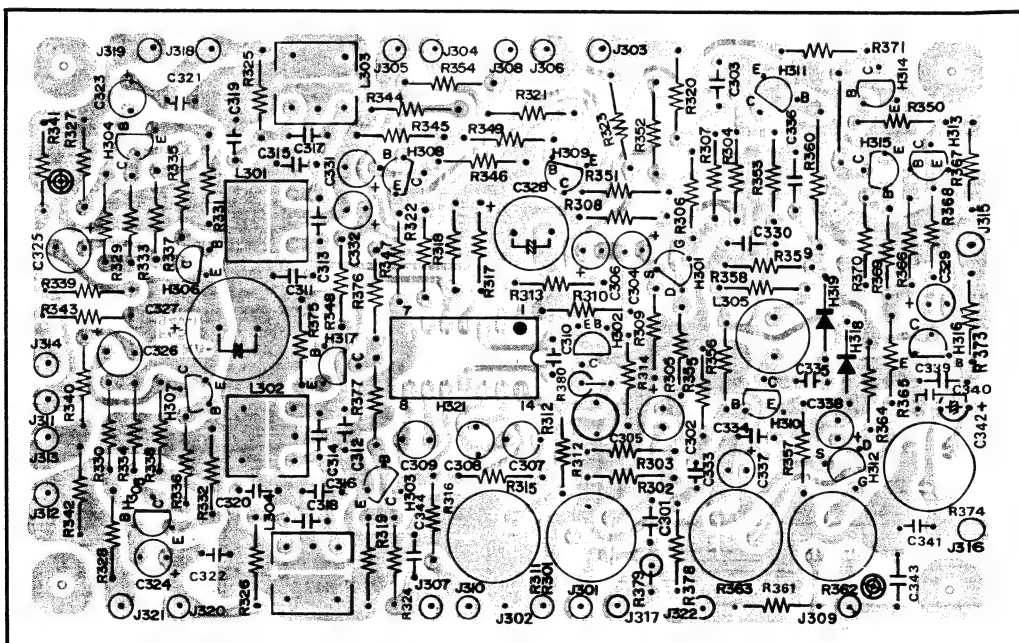


Figure 16. FM MPX (P300) Component Locations

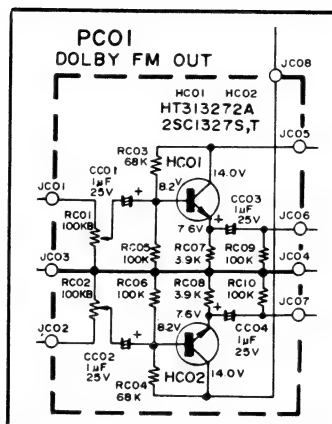


Figure 17. Dolby FM Assembly (PC01) Schematic Diagram

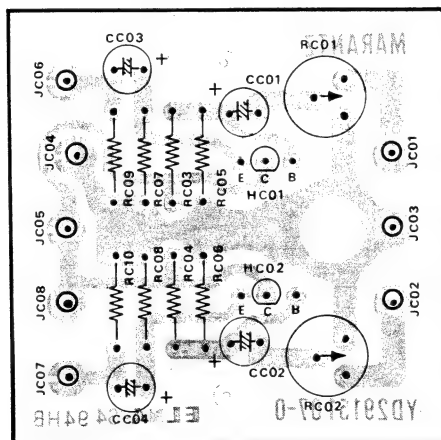


Figure 18. Dolby FM Assembly (PC01) Component Locations

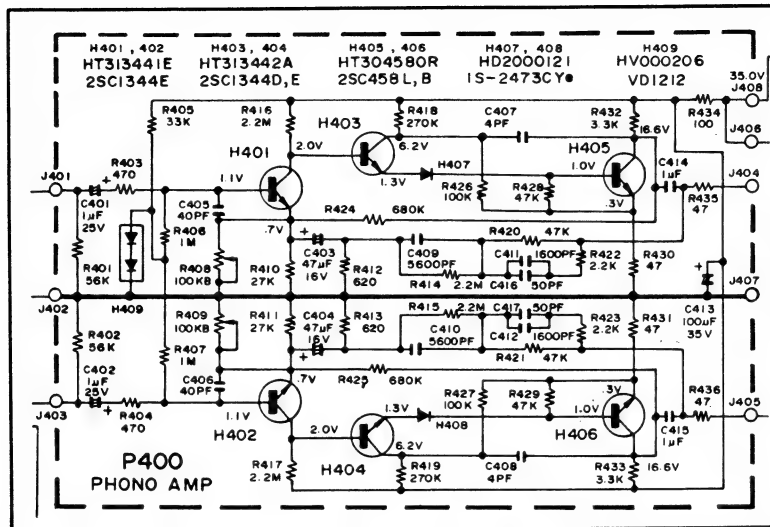


Figure 19. Phono Amplifier (P400) Schematic Diagram

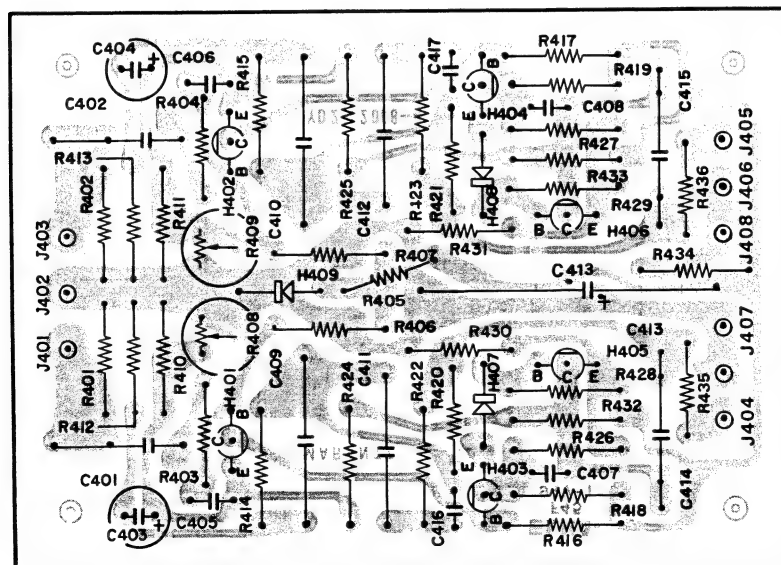


Figure 20. Phono Amplifier (P400) Component Locations

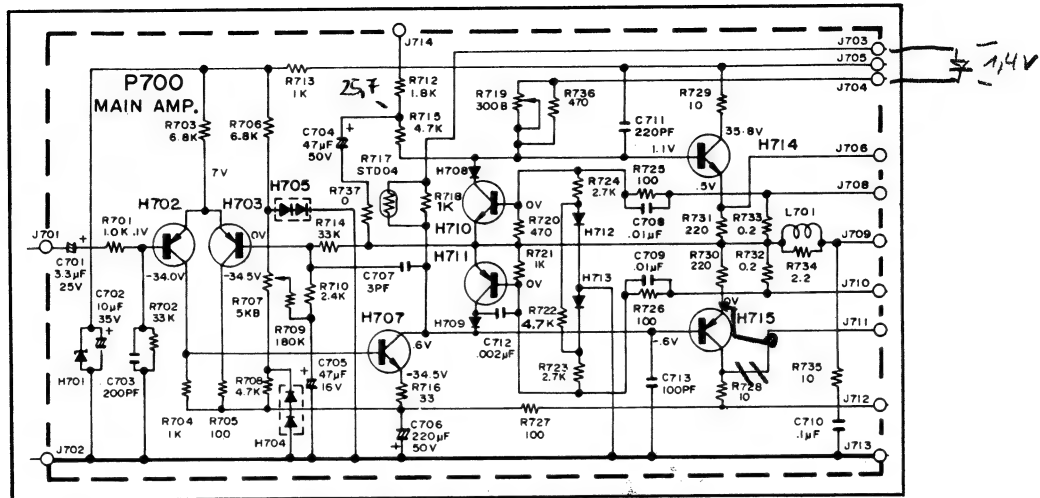


Figure 21. Main Amplifier (P700) Schematic Diagram

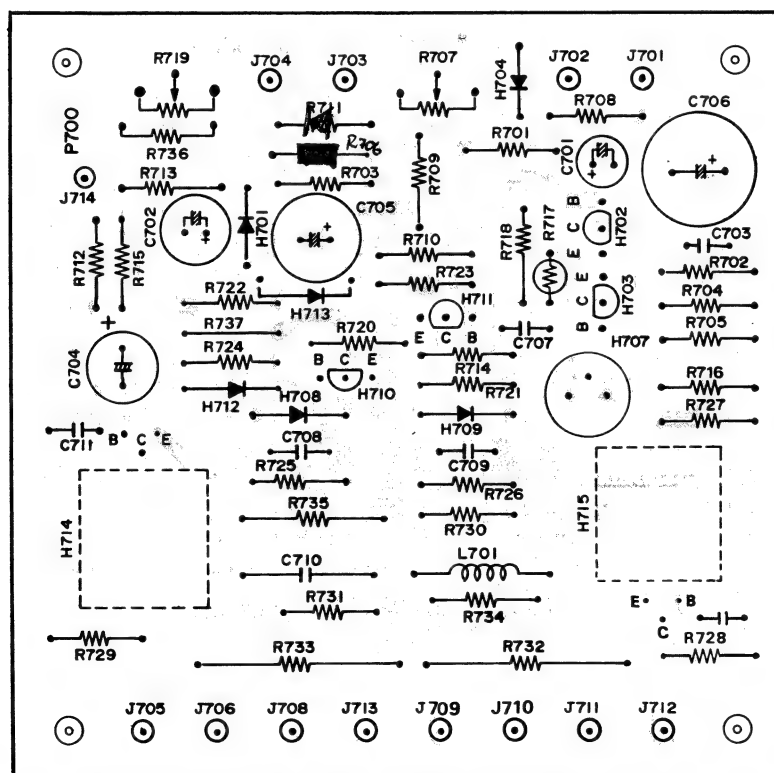


Figure 22. Main Amplifier (P700) Component Locations

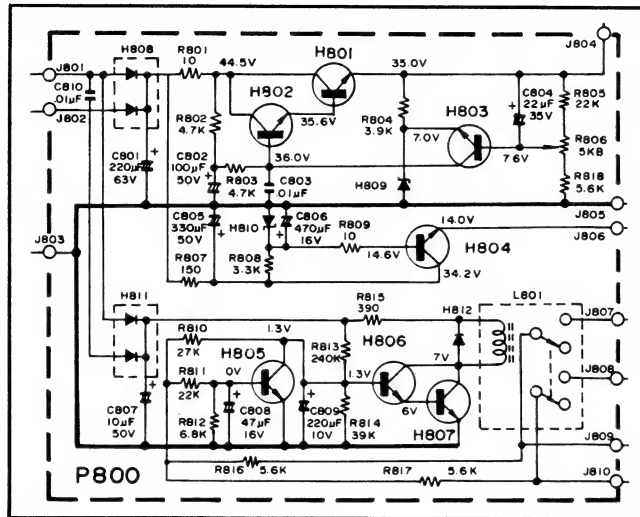


Figure 23. Power Supply (P800) Schematic Diagram

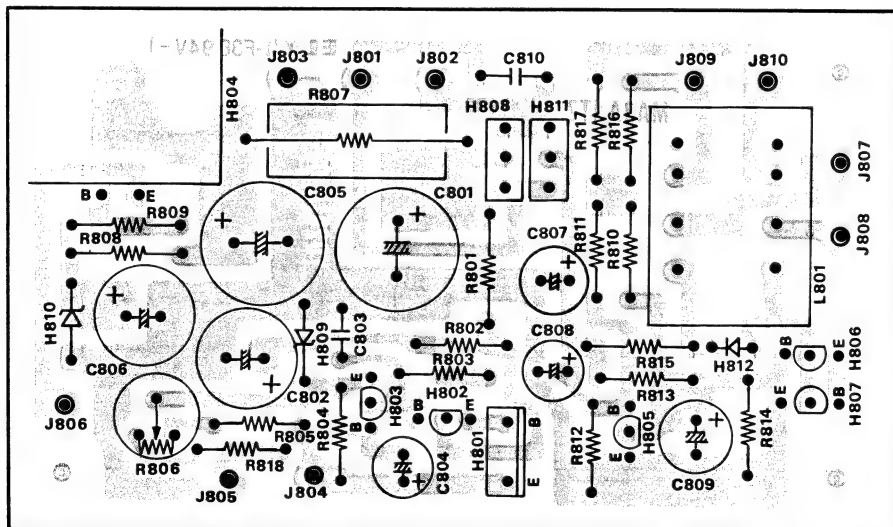


Figure 24. Power Supply (P800) Component Locations



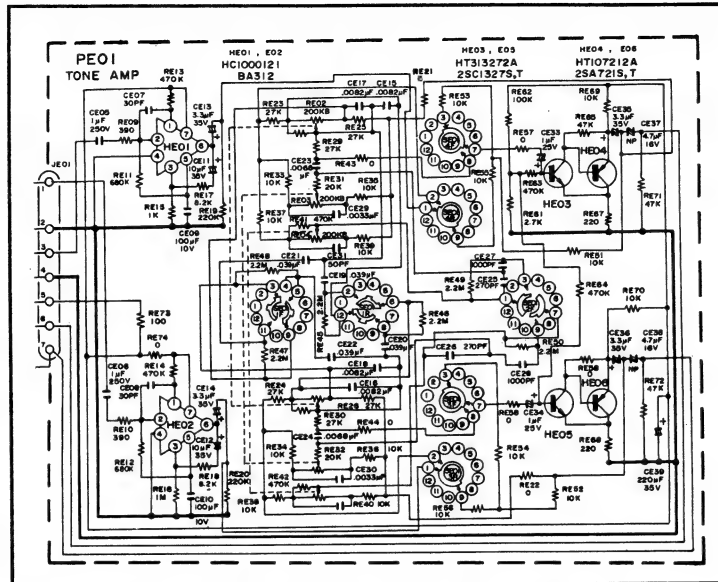


Figure 25. Pre Tone Amplifier (PE01) Schematic Diagram

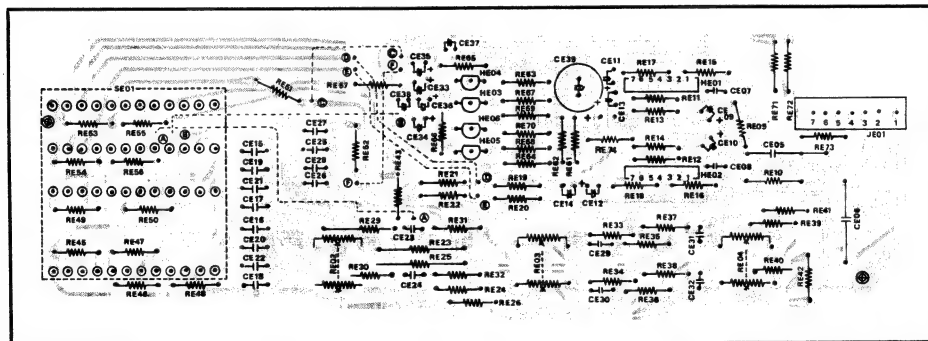


Figure 26. Pre Tone Amplifier (PE01) Component Locations

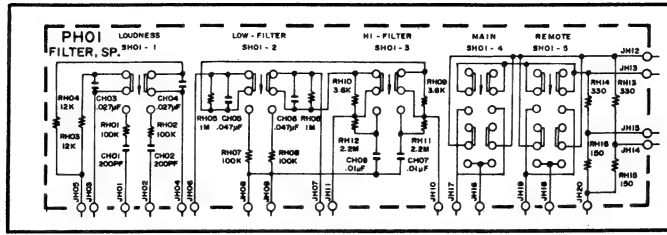


Figure 27. Filter (PH01) Schematic Diagram

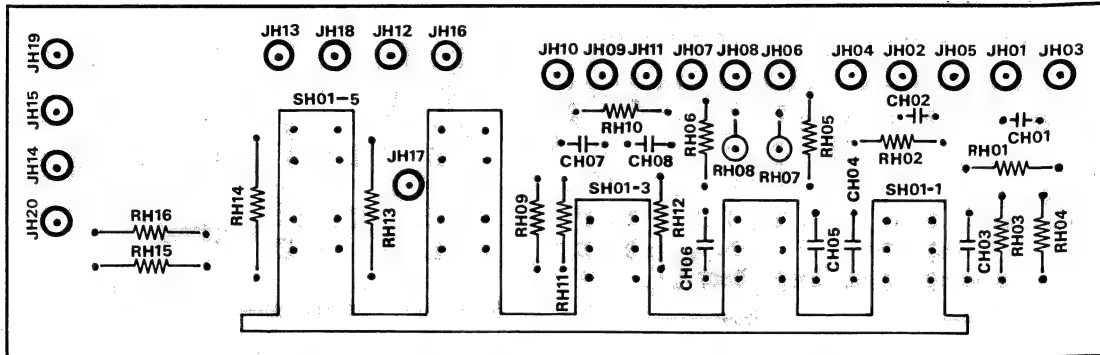


Figure 28. Filter (PH01) Component Locations

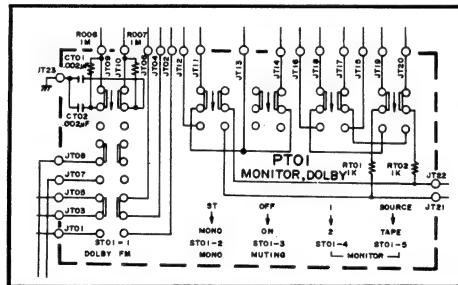


Figure 29. Monitor (PT01) Schematic Diagram

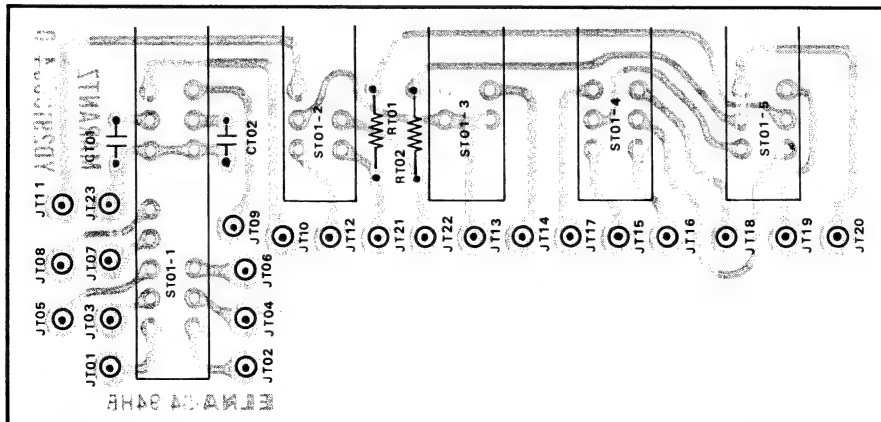
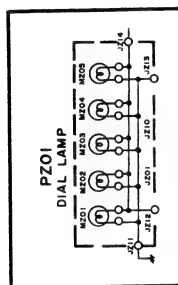
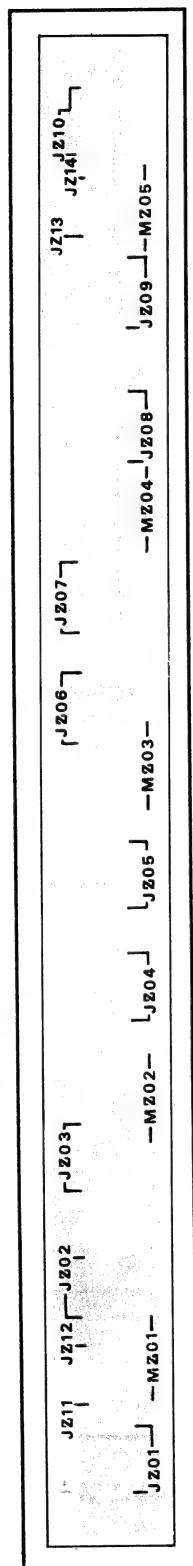


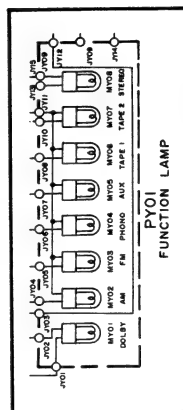
Figure 30. Monitor (PT01) Component Locations



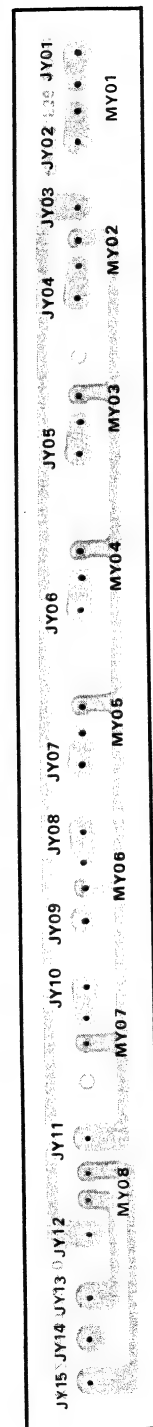
**Figure 31. Dial Lamp (PZ01) Schematic Diagram**



**Figure 32. Dial Lamp (PZ01) Component Locations**



**Figure 33. Function Lamps Assembly (PY01) Schematic Diagram**



**Figure 34. Function Lamps Assembly (PY01) Component Locations**

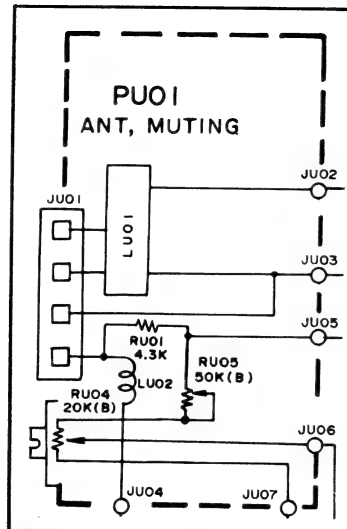


Figure 35. Ant. Muting (PU01) Schematic Diagram

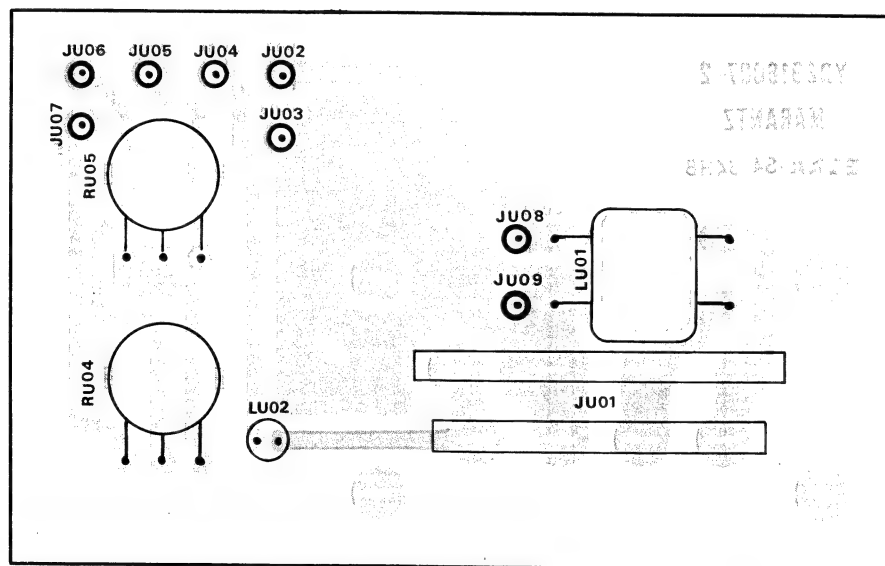


Figure 36. Ant. Muting (PU01) Component Locations

## TECHNICAL SPECIFICATIONS

### Amplifier Section:

RATED POWER OUTPUT	50 Watts per channel, Continuous Average Power, both channels driven.
Power Band	20 Hz to 20kHz
Total Harmonic Distortion	0.25%
Load Impedance	8 $\Omega$
Intermodulation Distortion at Rated Power	0.25%
Damping Factor	55
Frequency Response	20 Hz to 20 kHz $\pm 0.5$ dB

### Preamplifier Sections:

#### Phono:

Dynamic Range	96 dB
NOTE: Dynamic Range is the ratio in dB of the phono input overload to equivalent input noise.	
Equivalent Input Noise	1.5 $\mu$ V
Input Overload	100 mV
Sensitivities (for rated power output)	
Phono	1.8 mV
Tape	180 mV
Main In	1.5 V
Frequency Response (phono)	30 Hz to 15 kHz $\pm 1.0$ dB

#### Input Impedances

Phono	47 k $\Omega$
Aux or Tape	100 k $\Omega$
Main In	30 k $\Omega$
Tape Output Level	775 mV

Ref: 7.75 mV at phono input

#### Signal to Noise Ratio

Aux Input	85 dB
Phono Input	75 dB

#### Tone Controls

Bass: 100 Hz	$\pm 10$ dB
Tone Mode at 250 Hz	$\pm 3$ dB
Mid: 700 Hz	$\pm 7.5$ dB
Treble: 10 kHz	$\pm 10$ dB
Tone Mode at 4 kHz	$\pm 3$ dB

### FM Tuner Section:

IHF Usable Sensitivity	2.5 $\mu$ V
Selectivity (alternate carrier)	60 dB
Quieting Slope	
RF Input for 30 dB Quieting	1.9 $\mu$ V
Quieting at 5 $\mu$ V RF Input	55 dB
Quieting at 10 $\mu$ V RF Input	60 dB
Quieting at 50 $\mu$ V RF Input	70 dB

## Total Harmonic Distortion

Mono: .....	0.2%
Stereo: .....	0.4%
Capture Ratio .....	1.5 dB
Stereo Separation at 1 kHz .....	40 dB
Spurious Rejection .....	95 dB
Image Rejection .....	70 dB
IF Rejection .....	90 dB
AM Suppression .....	55 dB

## AM Tuner Section:

Sensitivity .....	20 $\mu$ V
-------------------	------------

## General:

Power Requirements .....	120 V AC, 50/60 Hz
Power Consumption at rated output, both channels operating .....	220 Watts
Idling Power (Volume Control at zero) .....	35 Watts
Dimensions:	
Panel Width .....	17-3/8 inches
Panel Height .....	5-3/8 inches
Depth .....	14-3/8 inches
Weight:	
Unit Alone .....	34.1 lbs
Packed for Shipment .....	40.7 lbs

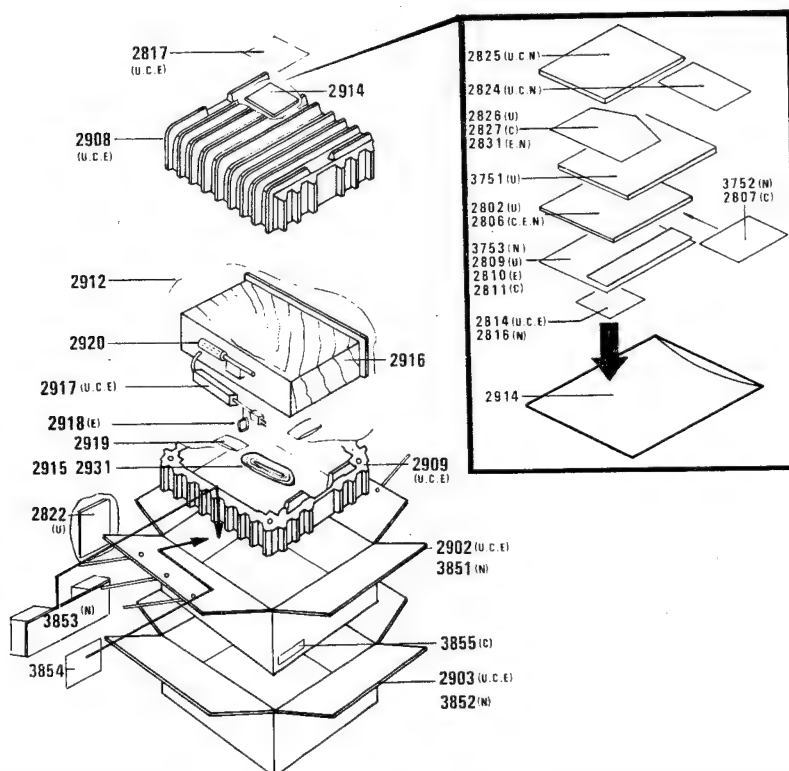


Figure 37. Packing

U: For U.S.A.  
C: For Canada  
E: For Europe  
N: For Scandinavia

# Parts List

U: For U.S.A.  
C: For Canada  
E: For Europe  
N: For Scandinavia

REF.	Q'TY				PARTS NO.	DESCRIPTION
DESIG.	U	C	E	N		
A	1	1	1	1	296006340	Front Panel Assembly
0103	1	1	1	1	296006301	Escutcheon
0104	1	1	1	1	285340101	Frame
0105	1	1	1	1	291615801	Window
0106	11	11	11	11	288625901	Bushing
0108	1	1	1	1	285425901	Bushing
0109	1	1	1	1	291510701	Sheet
0112	1	1	1	1	292805301	Cover
B	3	3	3	3	281815440	Knob Assembly, Lower
0311	3	3	3	3	281815404	Knob
0312	3	3	3	3	71400149Q	Spring
C	3	3	3	3	281815441	Knob Assembly, Upper
0314	3	3	3	3	281815405	Knob
0315	3	3	3	3	71400159Q	Spring
D	1	1	1	1	285327340	Flywheel Assembly
1204	2	2	2	2	257706302	Escutcheon
1205	1	1	1	1	257727301	Flywheel
1206	1	1	1	1	285311201	Shaft
1210	1	1	1	1	53110603E	Hexagon Nut
1212	1	1	1	1	54020601E	Flat Washer, P.
E	1	1	1	1	291510340	Pointer Assembly
1504	1	1	1	1	291510301	Pointer
1505	1	1	1	1	281810302	Pointer
1506	1	1	1	1	291510302	Pointer
0671	1	1	1	1	291526703	Heatsink
M005	1	1	1	1	IN1008030	Lamp
F	1	1	1	1	281915943	Drum Assembly
1808	1	1	1	1	281915901	Drum
1810	1	1	1	1	71101689L	Spring
1813	2	2	2	2	51064019A	Set Screw
G	1	1	1	1	120200640	Hook Assembly
1904	1	1	1	1	120225801	Hook
1906	1	1	1	1	72080802A	String
H	1	1	1	1	291625740	Lid Assembly, Upper
0203	1	1	1	1	291625701	Lid
0204	5	5	5	5	257711807	Spacer
0205	4	4	4	4	285605601	Buffer
0206	1	1	1	1	291705601	Buffer
I	1	1	1	1	291625741	Lid Assembly, Lower
0213	1	1	1	1	291625702	Lid
0214	1	1	1	1	291512001	Insulator
J						
0505				1	296016040	Rear Panel Assembly
0514				1	296016022	Bracket
0516				1	284906702	Cap
0517				2	282125901	Bushing
					55060305S	T.R. Rivet
REF.	Q'TY				PARTS NO.	DESCRIPTION
DESIG.	U	C	E	N		
1725	5	5	5	5	51100306S	B.H.M. Screw, B3 x 6
P100	1	1	1	1	YD2819002	P100 FM FRONT END BOARD
	1	1	1	1	ZZ2928102	P.W. Board Assembly
R101	1	1	1	1	RT0556314	Resistor, 56kΩ ±5% ¼W
R102	1	1	1	1	RT0510514	Resistor, 1MΩ ±5% ¼W
R103	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R104	1	1	1	1	RT0522114	Resistor, 220Ω ±5% ¼W
R105	1	1	1	1	RT0522114	Resistor, 220Ω ±5% ¼W
R106	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R107	1	1	1	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R108	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R109	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R110	1	1	1	1	RT0512214	Resistor, 1.2kΩ ±5% ¼W
R111	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R112	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R113	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R114	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R115	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
C101	1	1	1	1	CA4330001	Variable Cap.
C102	1	1	1	1	CT1100001	Trimming Cap., 1.5~10pF
C103	1	1	1	1	CT1100002	Trimming Cap., 1.5~10pF
C104	1	1	1	1	CT1100001	Trimming Cap., 1.5~10pF
C105	1	1	1	1	CT1100001	Trimming Cap., 1.5~10pF
C106	1	1	1	1	CT1100001	Trimming Cap., 1.5~10pF
C107	1	1	1	1	DD1615001	Ceramic Cap., 15pF ±10%
C108	1	1	1	1	DK1710201	Ceramic Cap., 1000pF±20%
C109	1	1	1	1	DD1105001	Ceramic Cap., 5pF ±0.5pF
C110	1	1	1	1	DK1710201	Ceramic Cap., 1000pF±20%
C111	1	1	1	1	DD1615001	Ceramic Cap., 15pF ±10%
C112	1	1	1	1	DK1710201	Ceramic Cap., 1000pF±20%
C113	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C114	1	1	1	1	DD1001001	Ceramic Cap., 1.0pF±0.25pF
C115	1	1	1	1	DD1615001	Ceramic Cap., 15pF ±10%
C116	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF±20%
C117	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF±20%
C118	1	1	1	1	DD1520002	Ceramic Cap., 20pF ±5%
C119	1	1	1	1	DD1210006	Ceramic Cap., 10pF ±1pF
C120	1	1	1	1	DD1615003	Ceramic Cap., 15pF ±10%
C121	1	1	1	1	DD1615003	Ceramic Cap., 15pF ±10%
C122	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF±20%
C123	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF±20%
C124	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF±20%
C127	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF±20%
C128	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF±20%
L101	1	1	1	1	LA1202603	Ant. Coil
L102	1	1	1	1	LA1202604	RF Coil
L103	1	1	1	1	LA1202605	RF Coil
L104	1	1	1	1	LO1202608	Osc. Coil
L105	1	1	1	1	LI1001601	IFT
H101	1	1	1	1	HF200191A	FET, 2SK19(Y)
H102	1	1	1	1	HF200191A	FET, 2SK19(Y)
H103	1	1	1	1	HT305351B	Transistor, 2SC535(B)
J101	1	1	1	1	YP1000094	Plug
J102	1	1	1	1	YP1000094	Plug
J103						
J109	7	7	7	7	57271240W	Lug Eyelet

U: For U.S.A.  
C: For Canada  
E: For Europe  
N: For Scandinavia

REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
1720	3	3	3	3	273010903	Shield
1703	1	1	1	1	273010950	Shield, K
1706	1	1	1	1	291612003	Insulator
1711	2	2	2	2	281916008	Bracket
1712	4	4	4	4	51100306B	B.H.M. Screw, B3 x 6
1722	1	1	1	1	341105605	Buffer
<b>P150 AM TUNER BOARD</b>						
P150	1	1	1	1	YD2909001	P.W. Board
	1	1	1	1	ZZ2928101	P.W. Board Assembly
P158	2	2	2	2	293311802	Spacer, R181
R151	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R152	1	1	1	1	RT0530314	Resistor, 30kΩ ±5% ¼W
R153	1	1	1	1	RT0582314	Resistor, 82kΩ ±5% ¼W
R154	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R156	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R157	1	1	1	1	RC0000012	Resistor, 0Ω
R158	1	1	1	1	RT0539314	Resistor, 39kΩ ±5% ¼W
R159	1	1	1	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R160	1	1	1	1	RC0000012	Resistor, 0Ω
R161	1	1	1	1	RT0543214	Resistor, 4.3kΩ ±5% ¼W
R162	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R163	1	1	1	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
R164	1	1	1	1	RT0533114	Resistor, 330Ω ±5% ¼W
R165	1	1	1	1	RC0000012	Resistor, 0Ω
R166	1	1	1	1	RC0000012	Resistor, 0Ω
R167	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±5% ¼W
R168	1	1	1	1	RT0582314	Resistor, 82kΩ ±5% ¼W
R169	1	1	1	1	RT0562414	Resistor, 620kΩ ±5% ¼W
R170	1	1	1	1	RT0551114	Resistor, 510Ω ±5% ¼W
R171	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±5% ¼W
R172	1	1	1	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R173	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R174	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R175	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R176	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R177	1	1	1	1	RT0512314	Resistor, 12kΩ ±5% ¼W
R178	1	1	1	1	RA0103025	Trimming Resistor, 10kΩ (B)
R179	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R180	1	1	1	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
R181	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R182	1	1	1	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
C151	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C152	1	1	1	1	DF1747305	Film Cap., 0.047μF ±20%
C154	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C155	1	1	1	1	DF6545101	Film Cap., 450pF ±5%
C156	1	1	1	1	DD1615001	Ceramic Cap., 15pF ±10%
C157	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C158	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±5%
C159	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±5%
C160	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C161	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C162	1	1	1	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C163	1	1	1	1	DF1615305	Film Cap., 0.015μF ±10%
C164	1	1	1	1	DF1627305	Film Cap., 0.027μF ±10%
C165	1	1	1	1	DF1756205	Film Cap., 5600pF ±20%
C166	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±5%
C167	1	1	1	1	EA2260169	Electrolytic Cap., 22μF 16V
C168	1	1	1	1	EA1070169	Electrolytic Cap., 100μF 16V
C169	1	1	1	1	EA4750359	Electrolytic Cap., 4.7μF 35V
C170	1	1	1	1	EA1070169	Electrolytic Cap., 100μF 16V
C171	1	1	1	1	EE1050505	Electrolytic Cap., 1μF 50V
C172	1	1	1	1	EA1070169	Electrolytic Cap., 100μF 16V
C173	1	1	1	1	EA4750359	Electrolytic Cap., 4.7μF 35V
H151	1	1	1	1	HC1000506	IC, μPC30C
H152	1	1	1	1	HT313272A	Transistor, 2SC1327 ST
H153	1	1	1	1	HT108422A	Transistor, 2SA842 BLG
H154	1	1	1	1	HT104951C	Transistor, 2SA495 Y
H155	1	1	1	1	HH0000212	Thermistor, 31D27
L151	1	1	1	1	LA1001019	RF Coil, AM RF
L152	1	1	1	1	LO1001050	Osc. Coil, AM Osc.
L153	1	1	1	1	LI1028003	IFT, AM
L154	1	1	1	1	LC1332002	Choke Coil, 3.3μH
L155	1	1	1	1	LC1332002	Choke Coil, 3.3μH
J151	1	1	1	1	YP1000113	Plug
J152	1	1	1	1	YP1000113	Plug
J153	1	1	1	1	YP1000113	Plug
J155	1	1	1	1	YP1000113	Plug
J158	4	4	4	4	YP1000113	Plug
J160	1	1	1	1	YP1000113	Plug
J161	1	1	1	1	YP1000113	Plug
<b>P200 FM IF BOARD</b>						
P200	1	1	1	1	YD2884006	P.W. Board
	1	1	1	1	ZZ2928106	P.W. Board Assembly
P208	2	2	2	2	293311802	Spacer, R271
R201	1	1	1	1	RT0533014	Resistor, 33Ω ±10% ¼W
R202	1	1	1	1	RT0510114	Resistor, 100Ω ±10% ¼W
R203	1	1	1	1	RT0512314	Resistor, 12kΩ ±10% ¼W
R204	1	1	1	1	RT0547214	Resistor, 4.7kΩ ±10% ¼W
R205	1	1	1	1	RT0510214	Resistor, 1kΩ ±10% ¼W
R206	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±10% ¼W
R207	1	1	1	1	RT0510314	Resistor, 10kΩ ±10% ¼W
R208	1	1	1	1	RT0533314	Resistor, 33kΩ ±10% ¼W
R210	1	1	1	1	RT0533014	Resistor, 33Ω ±10% ¼W
R211	1	1	1	1	RT0515214	Resistor, 1.5kΩ ±10% ¼W
R212	1	1	1	1	RT0533214	Resistor, 3.3kΩ ±10% ¼W
R213	1	1	1	1	RT0547114	Resistor, 470Ω ±10% ¼W
R214	1	1	1	1	RT0510214	Resistor, 1kΩ ±10% ¼W
R215	1	1	1	1	RT0510114	Resistor, 100Ω ±10% ¼W
R216	1	1	1	1	RT0515214	Resistor, 1.5kΩ ±10% ¼W
R217	1	1	1	1	RT0533214	Resistor, 3.3kΩ ±10% ¼W
R218	1	1	1	1	RT0515114	Resistor, 150Ω ±10% ¼W
R219	1	1	1	1	RT0510214	Resistor, 1kΩ ±10% ¼W
R220	1	1	1	1	RT0510214	Resistor, 1kΩ ±10% ¼W
R221	1	1	1	1	RT0518314	Resistor, 18kΩ ±10% ¼W
R222	1	1	1	1	RT0510414	Resistor, 100kΩ ±10% ¼W
R223	1	1	1	1	RT0575014	Resistor, 75Ω ±10% ¼W
R224	1	1	1	1	RT0527114	Resistor, 270Ω ±10% ¼W
R225	1	1	1	1	RT0515114	Resistor, 150Ω ±10% ¼W
R226	1	1	1	1	RT0515214	Resistor, 1.5kΩ ±10% ¼W
R227	1	1	1	1	RT0533214	Resistor, 33kΩ ±10% ¼W
R228	1	1	1	1	RT0515114	Resistor, 150Ω ±10% ¼W
R229	1	1	1	1	RT0510214	Resistor, 1kΩ ±10% ¼W
R230	1	1	1	1	RT0510214	Resistor, 1kΩ ±10% ¼W
R231	1	1	1	1	RT0515114	Resistor, 150Ω ±10% ¼W
R232	1	1	1	1	RT0510414	Resistor, 100kΩ ±10% ¼W
R233	1	1	1	1	RT0527314	Resistor, 27kΩ ±10% ¼W
R234	1	1	1	1	RT0533414	Resistor, 33kΩ ±5% ¼W



U: For U.S.A.  
C: For Canada  
E: For Europe  
N: For Scandinavia

REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
R235	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R236	1	1	1	1	RT0527114	Resistor, 270Ω ±5% ¼W
R237	1	1	1	1	RT0582214	Resistor, 8.2kΩ ±5% ¼W
R238	1	1	1	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R239	1	1	1	1	RT0515114	Resistor, 150Ω ±5% ¼W
R240	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R241	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R242	1	1	1	1	RT0568314	Resistor, 68kΩ ±5% ¼W
R243	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R244	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R245	1	1	1	1	RT0527114	Resistor, 270Ω ±5% ¼W
R246	1	1	1	1	RT0582214	Resistor, 8.2kΩ ±5% ¼W
R247	1	1	1	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R248	1	1	1	1	RT0515114	Resistor, 150Ω ±5% ¼W
R249	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R250	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R252	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R253	1	1	1	1	RT0515114	Resistor, 150Ω ±5% ¼W
R254	1	1	1	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R256	1	1	1	1	RT0512314	Resistor, 12kΩ ±5% ¼W
R257	1	1	1	1	RT0582214	Resistor, 8.2kΩ ±5% ¼W
R258	1	1	1	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R259	1	1	1	1	RT0515114	Resistor, 150Ω ±5% ¼W
R260	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R261	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R262	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R263	1	1	1	1	RT0522114	Resistor, 220Ω ±5% ¼W
R264	1	1	1	1	RT0582114	Resistor, 820Ω ±5% ¼W
R265	1	1	1	1	RT0582114	Resistor, 820Ω ±5% ¼W
R266	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R267	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R268	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R269	1	1	1	1	RT0527314	Resistor, 27kΩ ±5% ¼W
R270	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R271	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R272	1	1	1	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R273	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R274	1	1	1	1	RT0518414	Resistor, 180kΩ ±5% ¼W
R275	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R276	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±5% ¼W
R277	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
C201	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C202	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C203	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C204	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C205	1	1	1	1	DD1620101	Ceramic Cap., 200pF ±10%
C206	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C207	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C208	1	1	1	1	DK1810402	Ceramic Cap., 0.1μF ±80% -20%
C209	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C210	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C211	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C212	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C213	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C214	1	1	1	1	DD1620101	Ceramic Cap., 200pF ±10%
C215	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C216	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C217	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C218	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C219	1	1	1	1	DD1620101	Ceramic Cap., 200pF ±10%
C220	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C221	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C222	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C223	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C224	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C225	1	1	1	1	DD1620101	Ceramic Cap., 200pF ±10%
C226	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C227	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C228	1	1	1	1	DK1840301	Ceramic Cap., 0.04μF ±80% -20%
C229	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C230	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C231	1	1	1	1	DK1710201	Ceramic Cap., 0.001μF ±80% -20%
C232	1	1	1	1	DK1810402	Ceramic Cap., 0.1μF ±80% -20%
C233	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C234	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C235	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C236	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C237	1	1	1	1	EA1060169	Electrolytic Cap., 10μF 16V
C238	1	1	1	1	DD1620101	Ceramic Cap., 200pF ±20%
C239	1	1	1	1	DD1620101	Ceramic Cap., 200pF ±20%
C240	1	1	1	1	EA1070109	Electrolytic Cap., 100μF 10V
C242	1	1	1	1	EA1070169	Electrolytic Cap., 100μF 16V
C243	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C244	1	1	1	1	EA1060169	Electrolytic Cap., 10μF 16V
C245	1	1	1	1	EA2260169	Electrolytic Cap., 22μF 16V
C246	1	1	1	1	EA1060169	Electrolytic Cap., 22μF 16V
C247	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±80% -20%
C248	1	1	1	1	DD1540001	Ceramic Cap., 40pF ±5%
C249	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±80% -20%
C262	1	1	1	1	DD1620101	Ceramic Cap., 200pF ±20%
F201	1	1	1	1	FP1107002	Ceramic Filter, SFE107MD-1
F202	1	1	1	1	FP1107002	Ceramic Filter, SFE107MD-1
F203	1	1	1	1	FP1107002	Ceramic Filter, SFE107MD-1
H201	1	1	1	1	HT308291C	Transistor, 2SC829C
H202	1	1	1	1	HT308291C	Transistor, 2SC829C
H203	1	1	1	1	HT308291C	Transistor, 2SC829C
H204	1	1	1	1	HT308291C	Transistor, 2SC829C
H205	1	1	1	1	HT308291C	Transistor, 2SC829C
H206	1	1	1	1	HT308291C	Transistor, 2SC829C
H207	1	1	1	1	HT308291C	Transistor, 2SC829C
H208	1	1	1	1	HT306441B	Transistor, 2SC644S
H210	1	1	1	1	HD1000105	Diode, 1N60
H211	1	1	1	1	HD1000105	Diode, 1N60
H212	1	1	1	1	HD1000105	Diode, 1N60
H213	1	1	1	1	HD1000105	Diode, 1N60
H214	1	1	1	1	HD1000105	Diode, 1N60
H215	1	1	1	1	HD1000105	Diode, 1N60
H216	1	1	1	1	HD2001105	Diode, 1S1555
H217	1	1	1	1	HD2001105	Diode, 1S1555
H218	1	1	1	1	HD1000105	Diode, 1N60
H219	1	1	1	1	HD1000105	Diode, 1N60
H220	1	1	1	1	HD2001105	Diode, 1S1555
H221	1	1	1	1	HD2001105	Diode, 1S1555
H222	1	1	1	1	HD1000105	Diode, 1N60
H223	1	1	1	1	HD1000105	Diode, 1N60
H224	1	1	1	1	HD2001105	Diode, 1S1555
H225	1	1	1	1	HD2001105	Diode, 1S1555
H226	1	1	1	1	HD1000105	Diode, 1N60
H227	1	1	1	1	HD1000105	Diode, 1N60
H228	1	1	1	1	HD2001105	Diode, 1S1555

U: For U.S.A.  
C: For Canada  
E: For Europe  
N: For Scandinavia

REF.	QTY				PARTS NO.	DESCRIPTION
DESIG.	U	C	E	N		
H229	1	1	1	1	HD2001105	Diode, 1S1555
H230	1	1	1	1	HD1000302	Diode, 20A90M
H231	1	1	1	1	HD1000302	Diode, 20A90M
H232	1	1	1	1	HD1000302	Diode, 20A90M
L201	1	1	1	1	LI1401623	IFT, FM
L202	1	1	1	1	LC1332002	Choke Coil, 3.3μH
J201						
J208	8	8	8	8	YP1000120	Plug
J210	1	1	1	1	YP1000120	Plug
J211	1	1	1	1	YP1000120	Plug
J212	1	1	1	1	YP1000120	Plug
1851	1	1	1	1	391810901	Shield
						<b>P300 FM MPX BOARD</b>
P300	1	1	1	1	YD2890003	P.W. Board
	1	1	1	1	ZZ2928103	P.W. Board Assembly
P308	2	2	2	2	293311802	Spacer, R321
R301	1	1	1	1	RA0202011	Trimming Resistor, 2kΩ (B)
R302	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R303	1	1	1	1	RT0556314	Resistor, 56kΩ ±5% ¼W
R304	1	1	1	1	RT0568314	Resistor, 68kΩ ±5% ¼W
R305	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R306	1	1	1	1	RT0518414	Resistor, 180kΩ ±5% ¼W
R307	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R308	1	1	1	1	RT0512414	Resistor, 120kΩ ±5% ¼W
R309	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R310	1	1	1	1	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R311	1	1	1	1	RA0502020	Trimming Resistor, 5kΩ (B)
R312	1	1	1	1	RT0516314	Resistor, 16kΩ ±5% ¼W
R313	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R314	1	1	1	1	RT0520314	Resistor, 20kΩ ±5% ¼W
R315	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R316	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R317	1	1	1	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R318	1	1	1	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R319	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R320	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R321	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R322	1	1	1	1	RT0510014	Resistor, 10Ω ±5% ¼W
R323	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R324	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R325	1	1	1	1	RT0530314	Resistor, 30kΩ ±5% ¼W
R326	1	1	1	1	RT0530314	Resistor, 30kΩ ±5% ¼W
R327	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R328	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R329	1	1	1	1	RT0515514	Resistor, 1.5MΩ ±5% ¼W
R330	1	1	1	1	RT0515514	Resistor, 1.5MΩ ±5% ¼W
R331	1	1	1	1	RT0551114	Resistor, 510Ω ±5% ¼W
R332	1	1	1	1	RT0551114	Resistor, 510Ω ±5% ¼W
R333	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R334	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R335	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R336	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R337	1	1	1	1	RT0582214	Resistor, 8.2kΩ ±5% ¼W
R338	1	1	1	1	RT0582214	Resistor, 8.2kΩ ±5% ¼W
R339	1	1	1	1	RT0547114	Resistor, 470Ω ±5% ¼W
R340	1	1	1	1	RT0547114	Resistor, 470Ω ±5% ¼W
R341	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R342	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R343	1	1	1	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R344	1	1	1	1	RT0556414	Resistor, 560kΩ ±5% ¼W
R345	1	1	1	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R346	1	1	1	1	RT0512414	Resistor, 120kΩ ±5% ¼W
R347	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R348	1	1	1	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R349	1	1	1	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R350	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R351	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R352	1	1	1	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R353	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R354	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R355	1	1	1	1	RT0527314	Resistor, 27kΩ ±5% ¼W
R356	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R357	1	1	1	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R358	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R359	1	1	1	1	RT0527314	Resistor, 27kΩ ±5% ¼W
R360	1	1	1	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R361	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R362	1	1	1	1	RA0104018	Trimming Resistor, 100kΩ (B)
R363	1	1	1	1	RA0103025	Trimming Resistor, 10kΩ (B)
R364	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±5% ¼W
R365	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R366	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R367	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R368	1	1	1	1	RT0527414	Resistor, 270kΩ ±5% ¼W
R369	1	1	1	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R370	1	1	1	1	RT0512314	Resistor, 12kΩ ±5% ¼W
R371	1	1	1	1	RT0522114	Resistor, 220Ω ±5% ¼W
R373	1	1	1	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R374	1	1	1	1	RA0103025	Trimming Resistor, 10kΩ (B)
R375	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R376	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R377	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R378	1	1	1	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R379	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±5% ¼W
R380	1	1	1	1	RT0527214	Resistor, 2.7kΩ ±5% ¼W
C301	1	1	1	1	DF1639205	Film Cap., 3900pF ±10%
C302	1	1	1	1	EA3360109	Electrolytic Cap., 33μF 10V
C303	1	1	1	1	DF1722305	Film Cap., 0.022μF ±20%
C304	1	1	1	1	EA2260169	Electrolytic Cap., 22μF 16V
C305	1	1	1	1	DF5547101	Film Cap., 470pF ±5%
C306	1	1	1	1	EA2260169	Electrolytic Cap., 22μF 16V
C307	1	1	1	1	EQ4740501	Electrolytic Cap., 0.47μF ±20% 50V
C308	1	1	1	1	EQ2240501	Electrolytic Cap., 0.22μF ±20% 50V
C309	1	1	1	1	EQ2240501	Electrolytic Cap., 0.22μF ±20% 50V
C310	1	1	1	1	DF1747301	Film Cap., 0.047μF ±20% 50V
C311	1	1	1	1	DF1515205	Film Cap., 1500pF ±5%
C312	1	1	1	1	DF1515205	Film Cap., 1500pF ±5%
C313	1	1	1	1	DD1536101	Ceramic Cap., 360pF ±5%
C314	1	1	1	1	DD1536101	Ceramic Cap., 360pF ±5%
C315	1	1	1	1	DF1533205	Film Cap., 3300pF ±5%
C316	1	1	1	1	DF1533205	Film Cap., 3300pF ±5%
C317	1	1	1	1	DF1515205	Film Cap., 1500pF ±5%

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REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
C318	1	1	1	1	DF1515205	Film Cap., 1500pF ±5%
C319	1	1	1	1	DF1522205	Film Cap., 2200pF ±5%
C320	1	1	1	1	DF1522205	Film Cap., 2200pF ±5%
C321	1	1	1	1	DF1510205	Film Cap., 1000pF ±5%
C322	1	1	1	1	DF1510205	Film Cap., 1000pF ±5%
C323	1	1	1	1	EV2240351	Electrolytic Cap., 0.22μF ±20%35V
C324	1	1	1	1	EV2240351	Electrolytic Cap., 0.22μF ±20%35V
C325	1	1	1	1	EV1050352	Electrolytic Cap., 1μF ±20%35V
C326	1	1	1	1	EV1050352	Electrolytic Cap., 1μF ±20%35V
C327	1	1	1	1	EA2270259	Electrolytic Cap., 220μF 25V
C328	1	1	1	1	EA2270169	Electrolytic Cap., 220μF 16V
C329	1	1	1	1	EA1060169	Electrolytic Cap., 10μF 16V
C330	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±20%
C331	1	1	1	1	EA1050509	Electrolytic Cap., 1μF 50V
C332	1	1	1	1	EA1060169	Electrolytic Cap., 10μF 16V
C333	1	1	1	1	DD1210001	Ceramic Cap., 10pF ±1pF
C334	1	1	1	1	DF1668301	Film Cap., 0.068μF ±10%
C335	1	1	1	1	DF1740301	Film Cap., 0.04μF ±20%
C336	1	1	1	1	DK1810402	Ceramic Cap., 0.1μF ±20%
C337	1	1	1	1	EA4750359	Electrolytic Cap., 4.7μF 35V
C338	1	1	1	1	EA1050509	Electrolytic Cap., 1μF 50V
C339	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±20%
C340	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±20%
C341	1	1	1	1	DK1840302	Ceramic Cap., 0.04μF ±20%
C343	1	1	1	1	DF1710402	Film Cap., 0.1μF ±20%
C344	1	1	1	1	DK1820302	Ceramic Cap., 0.02μF ±20%
H301	1	1	1	1	HF200301C	FET, 2SK30Y
H302	1	1	1	1	HT308281D	Transistor, 2SC828S
H303	1	1	1	1	HT308281D	Transistor, 2SC828S
H304	1	1	1	1	HT307322A	Transistor, 2SC732 B or G
H305	1	1	1	1	HT307322A	Transistor, 2SC732 B or G
H306	1	1	1	1	HT108422A	Transistor, 2SA842 G or BL
H307	1	1	1	1	HT108422A	Transistor, 2SA842 G or BL
H308	1	1	1	1	HT308281D	Transistor, 2SC828S
H309	1	1	1	1	HT308281D	Transistor, 2SC828S
H310	1	1	1	1	HT308281D	Transistor, 2SC828S
H311	1	1	1	1	HT308281D	Transistor, 2SC828S
H312	1	1	1	1	HF200300A	FET, 2SK30A
H313	1	1	1	1	HT308281D	Transistor, 2SC828S
H314	1	1	1	1	HT308281D	Transistor, 2SC828S
H315	1	1	1	1	HT308281D	Transistor, 2SC828S
H316	1	1	1	1	HT308281D	Transistor, 2SC828S
H317	1	1	1	1	HT308281D	Transistor, 2SC828S
H318	1	1	1	1	HD1000105	Diode, 1N60
H319	1	1	1	1	HD1000105	Diode, 1N60
H321	1	1	1	1	HC1000401	IC, HA1156
L301	1	1	1	1	LS1029004	MPX Coil, 56mH
L302	1	1	1	1	LS1029004	MPX Coil, 56mH
L303	1	1	1	1	LS1029005	MPX Coil, 43mH
L304	1	1	1	1	LS1029005	MPX Coil, 43mH
L305	1	1	1	1	LC2105001	Choke Coil, 1mH
J301	22	22	22	22	YP1000113	Plug
J322						
PC01	1	1	1	1	YD2915107	P.W. Board
	1	1	1	1	ZZ2928307	P.W. Board Assembly
RC01	1	1	1	1	RA0104015	Trimming Resistor, 100k (B)
RC02	1	1	1	1	RA0104015	Trimming Resistor, 100k (B)
RC03	1	1	1	1	RT0568314	Resistor, 68kΩ ±5% ¼W
RC04	1	1	1	1	RT0568314	Resistor, 68kΩ ±5% ¼W
RC05	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
RC06	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
RC07	1	1	1	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
RC08	1	1	1	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
RC09	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
RC10	1	1	1	1	RT0510414	Resistor, 100kΩ ±5% ¼W
CC01	1	1	1	1	EV1050256	Electrolytic Cap., 1μF 25V
CC02	1	1	1	1	EV1050256	Electrolytic Cap., 1μF 25V
CC03	1	1	1	1	EV1050256	Electrolytic Cap., 1μF 25V
CC04	1	1	1	1	EV1050256	Electrolytic Cap., 1μF 25V
JC01	8	8	8	8	YP1000113	Plug
JC08						
HC01	1	1	1	1	HT313272A	Transistor, 2SC1327 S,T
HC02	1	1	1	1	HT313272A	Transistor, 2SC1327 S,T
2620	1	1	1	1	62030039W	Lug
P400	1	1	1	1	YD2892008	P.W. Board
	1	1	1	1	ZZ2892008	P.W. Board Assembly
P408	2	2	2	2	293311802	Spacer, R434
R401	1	1	1	1	RT0556314	Resistor, 56kΩ ±5% ¼W
R402	1	1	1	1	RT0556314	Resistor, 56kΩ ±5% ¼W
R403	1	1	1	1	RT0547114	Resistor, 470Ω ±5% ¼W
R404	1	1	1	1	RT0547114	Resistor, 470Ω ±5% ¼W
R405	1	1	1	1	RN0533314	Resistor, 33kΩ ±5% ¼W
R406	1	1	1	1	RN0510514	Resistor, 1MΩ ±5% ¼W
R407	1	1	1	1	RN0510514	Resistor, 1MΩ ±5% ¼W
R408	1	1	1	1	RA0104015	Trimming Resistor, 100kΩ B±30%
R409	1	1	1	1	RA0104015	Trimming Resistor, 100kΩ B±30%
R410	1	1	1	1	RN0527314	Resistor, 27kΩ ±5% ¼W
R411	1	1	1	1	RN0527314	Resistor, 27kΩ ±5% ¼W
R412	1	1	1	1	RT0562114	Resistor, 620Ω ±5% ¼W
R413	1	1	1	1	RT0562114	Resistor, 620Ω ±5% ¼W
R414	1	1	1	1	RT0522514	Resistor, 2.2MΩ ±5% ¼W
R415	1	1	1	1	RT0522514	Resistor, 2.2MΩ ±5% ¼W
R416	1	1	1	1	RN0522514	Resistor, 2.2MΩ ±5% ¼W
R417	1	1	1	1	RN0522514	Resistor, 2.2MΩ ±5% ¼W
R418	1	1	1	1	RN0527414	Resistor, 270kΩ ±5% ¼W
R419	1	1	1	1	RN0527414	Resistor, 270kΩ ±5% ¼W
R420	1	1	1	1	RT0547314	Resistor, 47kΩ ±5% ¼W
R421	1	1	1	1	RT0547314	Resistor, 47kΩ ±5% ¼W
R422	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±5% ¼W
R423	1	1	1	1	RT0522214	Resistor, 2.2kΩ ±5% ¼W
R424	1	1	1	1	RN0568414	Resistor, 680kΩ ±5% ¼W
R425	1	1	1	1	RN0568414	Resistor, 680kΩ ±5% ¼W
R426	1	1	1	1	RN0510414	Resistor, 100kΩ ±5% ¼W
R427	1	1	1	1	RN0510414	Resistor, 100kΩ ±5% ¼W
R428	1	1	1	1	RN0547314	Resistor, 47kΩ ±5% ¼W
R429	1	1	1	1	RN0547314	Resistor, 47kΩ ±5% ¼W

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REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
R430	1	1	1	1	RT0547014	Resistor, 47Ω ±5% ¼W
R431	1	1	1	1	RT0547014	Resistor, 47Ω ±5% ¼W
R432	1	1	1	1	RN0533214	Resistor, 3.3kΩ ±5% ¼W
R433	1	1	1	1	RN0533214	Resistor, 3.3kΩ ±5% ¼W
R434	1	1	1	1	RT0510114	Resistor, 100Ω ±5% ¼W
R435	1	1	1	1	RT0547014	Resistor, 47Ω ±5% ¼W
R436	1	1	1	1	RT0547014	Resistor, 47Ω ±5% ¼W
C401	1	1	1	1	EV1050256	Electrolytic Cap., 1μF ±20% 25V
C402	1	1	1	1	EV1050256	Electrolytic Cap., 1μF ±20% 25V
C403	1	1	1	1	EE4760164	Electrolytic Cap., 47μF ±20% 16V
C404	1	1	1	1	EE4760164	Electrolytic Cap., 47μF ±20% 16V
C405	1	1	1	1	DD1540004	Ceramic Cap., 40pF ±50% 50V
C406	1	1	1	1	DD1540004	Ceramic Cap., 40pF ±50% 50V
C407	1	1	1	1	DD1104001	Ceramic Cap., 4pF ±0.5pF 50V
C408	1	1	1	1	DD1104001	Ceramic Cap., 4pF ±0.5pF 50V
C409	1	1	1	1	DF6556201	Film Cap., 5600pF ±5% 50V
C410	1	1	1	1	DF6556201	Film Cap., 5600pF ±5% 50V
C411	1	1	1	1	DF6516201	Film Cap., 1600pF ±5% 50V
C412	1	1	1	1	DF6516201	Film Cap., 1600pF ±5% 50V
C413	1	1	1	1	ED1070351	Electrolytic Cap., 100μF 35V
C414	1	1	1	1	DF1710552	Film Cap., 1μF ±20% 250V
C415	1	1	1	1	DF1710552	Film Cap., 1μF ±20% 250V
C416	1	1	1	1	DD1650001	Ceramic Cap., 50pF ±10% 50V
C417	1	1	1	1	DD1650001	Ceramic Cap., 50pF ±10% 50V
H401	1	1	1	1	HT313441E	Transistor, 2SC1344 E
H402	1	1	1	1	HT313441E	Transistor, 2SC1344 E
H403	1	1	1	1	HT313442A	Transistor, 2SC1344 D, E
H404	1	1	1	1	HT313442A	Transistor, 2SC1344 D, E
H405	1	1	1	1	HT304580R	Transistor, 2SC458 L B
H406	1	1	1	1	HT304580R	Transistor, 2SC458 L B
H407	1	1	1	1	HD2000121	Diode, 1S-2473
H408	1	1	1	1	HD2000121	Diode, 1S-2473
H409	1	1	1	1	HV0000206	Varistor, VD1212
J401	8	8	8	8	YP1000113	Plug
J408	8	8	8	8	51100306S	B.H.M. Screw, B3 x 6
2011	8	8	8	8	51100306S	B.H.M. Screw, B3 x 6
P700	2	2	2	2	YD2960101	P.W. Board
	2	2	2	2	ZZ2960301	P.W. Board Assembly
R701	2	2	2	2	RT0510214	Resistor, 1kΩ ±5% ¼W
R702	2	2	2	2	RT0533314	Resistor, 33kΩ ±5% ¼W
R703	2	2	2	2	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R704	2	2	2	2	RT0510214	Resistor, 1kΩ ±5% ¼W
R705	2	2	2	2	RT0510114	Resistor, 100Ω ±5% ¼W
R706	2	2	2	2	RT0556314	Resistor, 56kΩ ±5% ¼W
R707	2	2	2	2	RA0502017	Trimming Resistor, (B) 5kΩ
R708	2	2	2	2	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R709	2	2	2	2	RT0518414	Resistor, 180kΩ ±5% ¼W
R710	2	2	2	2	RT0524214	Resistor, 2.4kΩ ±5% ¼W
R712	2	2	2	2	RT0518214	Resistor, 1.8kΩ ±5% ¼W
R713	2	2	2	2	RC1010212	Resistor, 1kΩ ±10% ½W
R714	2	2	2	2	RT0533314	Resistor, 33kΩ ±5% ¼W
R715	2	2	2	2	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R716	2	2	2	2	GF0533014	Resistor, 33Ω ±5% ¼W
R717	2	2	2	2	HH0000303	Thermistor, STD 04
R718	2	2	2	2	RT0510214	Resistor, 1kΩ ±5% ¼W
R719	2	2	2	2	RA0301002	Trimming Resistor, 300Ω (B)
R720	2	2	2	2	GF0547114	Resistor, 470Ω ±5% ¼W
R721	2	2	2	2	GF0510214	Resistor, 1kΩ ±5% ¼W
R722	2	2	2	2	GF0547214	Resistor, 4.7kΩ ±5% ¼W
R723	2	2	2	2	GF0527214	Resistor, 2.7kΩ ±5% ¼W
R724	2	2	2	2	GF0527214	Resistor, 2.7kΩ ±5% ¼W
R725	2	2	2	2	GF0510114	Resistor, 100Ω ±5% ¼W
R726	2	2	2	2	GF0510114	Resistor, 100Ω ±5% ¼W
R727	2	2	2	2	GF0510114	Resistor, 100Ω ±5% ¼W
R728	2	2	2	2	GF0510014	Resistor, 10Ω ±5% ¼W
R729	2	2	2	2	GF0510014	Resistor, 10Ω ±5% ¼W
R730	2	2	2	2	GF0522114	Resistor, 220Ω ±5% ¼W
R731	2	2	2	2	GF0522114	Resistor, 220Ω ±5% ¼W
R732	2	2	2	2	GW1020205	Resistor, 0.2Ω ±10% 5W
R733	2	2	2	2	GW1020205	Resistor, 0.2Ω ±10% 5W
R734	2	2	2	2	RC1002212	Resistor, 2.2Ω ±10% ½W
R735	2	2	2	2	GJ0510002	Resistor, 10Ω ±5% 2W
R736	2	2	2	2	GF0547114	Resistor, 470Ω ±5% ¼W
R737	2	2	2	2	RC0000012	Resistor, 0Ω
C701	2	2	2	2	EE3350251	Electrolytic Cap., 3.3μF 25V ±20%
C702	2	2	2	2	EA1060359	Electrolytic Cap., 10μF 35V
C703	2	2	2	2	DD1620101	Ceramic Cap., 200pF 50V
C704	2	2	2	2	EA4760509	Electrolytic Cap., 47μF 50V
C705	2	2	2	2	EE4760162	Electrolytic Cap., 47μF 16V ±20%
C706	2	2	2	2	EA2270509	Electrolytic Cap., 220μF 50V
C707	2	2	2	2	DD1003050	Ceramic Cap., 3pF 500V
C708	2	2	2	2	DF1710305	Film Cap., 0.01μF 50V
C709	2	2	2	2	DF1710305	Film Cap., 0.01μF 50V
C710	2	2	2	2	DF1710452	Film Cap., 0.1μF 200V
C711	2	2	2	2	DK1622151	Ceramic Cap., 220pF 500V
C712	2	2	2	2	DK1622201	Ceramic Cap., 0.002μF 50V
C713	2	2	2	2	DK1610150	Ceramic Cap., 100pF 500V
J701	12	12	12	12	YP1000114	Plug
J706	14	14	14	14	YP1000114	Plug
J708	14	14	14	14	YP1000114	Plug
J714	14	14	14	14	YP1000114	Plug
H701	2	2	2	2	HD3003009	Diode, WZ-177
H702	1	1	1	1	HT107631B	Transistor, 2SA763(45)
H703	1	1	1	1	HT107631B	Transistor, 2SA763(45)
H704	2	2	2	2	HV0000312	Varistor, MV-13
H705	2	2	2	2	HV0000312	Varistor, MV-13
H707	2	2	2	2	HT308753B	Transistor, 2SC875 C,D,E
H708	2	2	2	2	HD2000221	Diode, 1S2472(Gr)
H709	2	2	2	2	HD2000221	Diode, 1S2472(Gr)
H710	2	2	2	2	HT309451Q	Transistor, 2SC945Q
H711	2	2	2	2	HT107331Q	Transistor, 2SA733Q
H712	2	2	2	2	HD2000221	Diode, 1S2472(Gr)
H713	2	2	2	2	HD2000221	Diode, 1S2472(Gr)
H714	1	1	1	1	HT404151Q	Transistor, 2SD415 P,Q,R
H715	1	1	1	1	HT205491Q	Transistor, 2SB549 P,Q,R
L701	2	2	2	2	LC2262001	Coil
P708	32	32	32	32	293311802	Spacer,
P709	8	8	8	8	293311801	Spacer,



U: For U.S.A.  
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REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
2024	2	2	2	2	281811806	Spacer
2028	4	4	4	4	291626701	Heatsink
2029	2	2	2	2	112600501	Clamper
2031	4	4	4	4	51100310E	B.H.M. Screw, B3 x 10
2032	4	4	4	4	53110301E	Hexagon Nut
J016	1	1	1	1	YJ0500019	Socket, TR Socket
J017	1	1	1	1	YJ0500019	Socket, TR Socket
J018	1	1	1	1	YJ0500019	Socket, TR Socket
J019	1	1	1	1	YJ0500019	Socket, TR Socket
H001	1	1	1	1	HT313431B	Transistor, 2SC1343 B, C
H002	1	1	1	1	HT107531B	Transistor, 2SA753 B, C
H003	1	1	1	1	HT313431B	Transistor, 2SC1343B,C
H004	1	1	1	1	HT107531B	Transistor, 2SA753 B,C
H005	1	1	1	1	HV0000212	Varistor, SV-3A
H006	1	1	1	1	HV0000212	Varistor, SV-3A
2003	2	2	2	2	292826701	Heatsink
2005	4	4	4	4	292816003	Bracket
2006	8	8	8	8	51380306T	R.H. Tapped Screw, R3 x 6
2010	8	8	8	8	281810104	Support
2015	8	8	8	8	51100312E	B.H.M. Screw, B3 x 12
2018	2	2	2	2	282026702	Heat Sink
2019	2	2	2	2	51060308S	P.H.M. Screw, P3 x 8
2605	2	2	2	2	62030039W	Lug
2712	2	2	2	2	121000501	Clamper
<b>P800 POWER SUPPLY BOARD</b>						
P800	1	1	1	1	YD2916002	P.W. Board
	1	1	1	1	ZZ2928302	P.W. Board Assembly
R801	1	1	1	1	GJ0510001	Resistor, 10Ω ±5% 1W
R802	1	1	1	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R803	1	1	1	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R804	1	1	1	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R805	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R806	1	1	1	1	RA0502013	Trimming Resistor, 5kΩ (B)
R807	1	1	1	1	GS1015105	Resistor, 150Ω ±10% 5W
R808	1	1	1	1	RT0533214	Resistor, 3.3kΩ ±5% ¼W
R809	1	1	1	1	RT0510014	Resistor, 10Ω ±5% ¼W
R810	1	1	1	1	RT0527314	Resistor, 27kΩ ±5% ¼W
R811	1	1	1	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R812	1	1	1	1	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R813	1	1	1	1	RT0524414	Resistor, 240kΩ ±5% ¼W
R814	1	1	1	1	RT0539314	Resistor, 39kΩ ±5% ¼W
R815	1	1	1	1	GU0539112	Resistor, 390Ω ±5% ¼W
R816	1	1	1	1	GU0556212	Resistor, 5.6kΩ ±5% ¼W
R817	1	1	1	1	GU0556212	Resistor, 5.6kΩ ±5% ¼W
R818	1	1	1	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
C801	1	1	1	1	EA2270631	Electrolytic Cap., 220μF 63V
C802	1	1	1	1	EA1070509	Electrolytic Cap., 100μF 50V
C803	1	1	1	1	DF1710305	Film Cap., 0.01μF 50V
C804	1	1	1	1	EA2260359	Electrolytic Cap., 22μF 35V
C805	1	1	1	1	EA3370509	Electrolytic Cap., 330μF 50V
C806	1	1	1	1	EA4770169	Electrolytic Cap., 470μF 16V
C807	1	1	1	1	EA4750509	Electrolytic Cap., 4.7μF 50V
C808	1	1	1	1	EA4760169	Electrolytic Cap., 47μF 16V
C809	1	1	1	1	EA2270109	Electrolytic Cap., 220μF 10V
C810	1	1	1	1	DK1810351	Ceramic Cap., 0.01μF 200V
H801	1	1	1	1	HT403302A	Transistor, 2SD330 D,E
H802	1	1	1	1	HT313183A	Transistor, 2SC1318 P,Q,R
H803	1	1	1	1	HT309452A	Transistor, 2SC945 Q, R
H804	1	1	1	1	HT403314A	Transistor, 2SD331C,D,E,F
H805	1	1	1	1	HT309452A	Transistor, 2SC945 Q, R
H806	1	1	1	1	HT313182R	Transistor, 2SC1318 R, S
H807	1	1	1	1	HT313182R	Transistor, 2SC1318 R, S
H808	1	1	1	1	HD2001103	Diode, DS131-B
H809	1	1	1	1	HD3002309	Diode, WZ-071
H810	1	1	1	1	HD3002709	Diode, WZ-140
H811	1	1	1	1	HD2001103	Diode, DS131-B
H812	1	1	1	1	HD2000321	Diode, 1S2471
L801	1	1	1	1	LY2024009	Relay, 24V
J801	1	1	1	1	YP1000113	Plug
J810	10	10	10	10		
P809	2	2	2	2	293311801	Spacer, R807
P808	8	8	8	8	293311802	Spacer, R801, R815 & R817
P807	4	4	4	4	344411805	Spacer, H808, H811
2103	1	1	1	1	291626702	Heatsink
2104	2	2	2	2	51102606S	B.H.M. Screw, B2.6 x 6
2105	1	1	1	1	51100312E	B.H.M. Screw, B3 x 12
2106	1	1	1	1	53110301E	Hexagon Nut
2108	1	1	1	1	54050300R	T.L. Washer, OR
4636	1	1	1	1	54040302N	Spring Washer
4637	1	1	1	1	54020301E	Flat Washer
0803	1	1	1	1	291516050	Bracket, K
0810	1	1	1	1	291512004	Insulator
0811	2	2	2	2	51100306A	B.H.M. Screw, B3 x 6
0813	4	4	4	4	51100306A	B.H.M. Screw, B3 x 6
0817	2	2	2	2	51100306A	B.H.M. Screw, B3 x 6
0822	2	2	2	2	51100306A	B.H.M. Screw, B3 x 6
0827	2	2	2	2	51490306A	B.H.M. Screw FS, B3 x 6
0833	3	3	3	3	51100305A	B.H.M. Screw, B3 x 5
0834	1	1	1	1	291712001	Insulator
0835	2	2	2	2	291612001	Insulator
0903	1	1	1	1	281816003	Bracket
0904	1	1	1	1	281816004	Bracket
0905	4	4	4	4	51100406A	B.H.M. Screw, B4 x 6
0909	1	1	1	1	291626251	Pulley, K
0914	2	2	2	2	51100305A	B.H.M. Screw, B3 x 5
1010	2	2	2	2	51042608A	F.H.M. Screw, F2.6 x 8
1111	2	2	2	2	51570306B	P.H.Tapped Screw, P3 x 6
1112	2	2	2	2	54050300R	T.L. Washer, OR
1115	2	2	2	2	288610701	Sheet
1403	1	1	1	1	257710602	Bearing
1404	1	1	1	1	141511801	Spacer
1405	2	2	2	2	51040306A	F.H.M. Screw, F3 x 6
1608	1	1	1	1	285326901	Protector,
1609	2	2	2	2	51570306B	P.H. Tapped Screw, P3 x 6
1615	2	2	2	2	287105302	Cover
1622	1	1	1	1	288612201	Sticker
M001	1	1	1	1	IM1104203	Meter, Signal
M002	1	1	1	1	IM1104202	Meter, FM Tuning
C003	1	1	1	1	EA3360109	Electrolytic Cap., 33μF 10V

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REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
PE01	1	1	1	1	YD2917002 ZZ2928202	PE01 PRE AMP. BOARD P.W. Board P.W. Board Assembly
PE08	2	2	2	2	293311802	Spacer, RE73
RE02	1	1	1	1	RD0204001	Variable Resistor, 200k $\Omega$ (B)
RE03	1	1	1	1	RD0204001	Variable Resistor, 200k $\Omega$ (B)
RE04	1	1	1	1	RD0204001	Variable Resistor, 200k $\Omega$ (B)
RE09	1	1	1	1	RT0539114	Resistor, 390 $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE10	1	1	1	1	RT0539114	Resistor, 390 $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE11	1	1	1	1	RN0568414	Resistor, 680k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE12	1	1	1	1	RN0568414	Resistor, 680k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE13	1	1	1	1	RN0547414	Resistor, 470k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE14	1	1	1	1	RN0547414	Resistor, 470k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE15	1	1	1	1	RT0510214	Resistor, 1k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE16	1	1	1	1	RT0510214	Resistor, 1k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE17	1	1	1	1	RT0582214	Resistor, 8.2k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE18	1	1	1	1	RT0582214	Resistor, 8.2k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE19	1	1	1	1	RT0522414	Resistor, 220k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE20	1	1	1	1	RT0522414	Resistor, 220k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE21	1	1	1	1	RC0000012	Resistor, 0 $\Omega$
RE22	1	1	1	1	RC0000012	Resistor, 0 $\Omega$
RE23	1	1	1	1	RT0527314	Resistor, 27k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE24	1	1	1	1	RT0527314	Resistor, 27k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE25	1	1	1	1	RT0527314	Resistor, 27k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE26	1	1	1	1	RT0527314	Resistor, 27k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE29	1	1	1	1	RT0527314	Resistor, 27k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE30	1	1	1	1	RT0527314	Resistor, 27k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE31	1	1	1	1	RT0520314	Resistor, 20k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE32	1	1	1	1	RT0520314	Resistor, 20k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE33	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE34	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE35	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE36	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE37	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE38	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE39	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE40	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE41	1	1	1	1	RT0547414	Resistor, 470k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE42	1	1	1	1	RT0547414	Resistor, 470k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE43	1	1	1	1	RC0000012	Resistor, 0 $\Omega$
RE45	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE46	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE47	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE48	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE49	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE50	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE51	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE52	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE53	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE54	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE55	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE56	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE57	1	1	1	1	RC0000012	Resistor, 0 $\Omega$
RE61	1	1	1	1	RT0527214	Resistor, 2.7k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE62	1	1	1	1	RT0510414	Resistor, 100k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE63	1	1	1	1	RT0547414	Resistor, 470k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE64	1	1	1	1	RT0547414	Resistor, 470k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
REF. DESIG.	U	C	E	N	PARTS NO.	DESCRIPTION
RE65	1	1	1	1	RT0547314	Resistor, 47k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE66	1	1	1	1	RT0547314	Resistor, 47k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE67	1	1	1	1	RT0522114	Resistor, 220 $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE68	1	1	1	1	RT0522114	Resistor, 220 $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE69	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE70	1	1	1	1	RT0510314	Resistor, 10k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE71	1	1	1	1	RT0547314	Resistor, 47k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE72	1	1	1	1	RT0547314	Resistor, 47k $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE73	1	1	1	1	RT0510114	Resistor, 100 $\Omega$ $\pm 5\%$ $\frac{1}{4}W$
RE74	1	1	1	1	RC0000012	Resistor, 0 $\Omega$
CE05	1	1	1	1	DF1710552	Film Cap., 1 $\mu F$ $\pm 20\%$ 250V
CE06	1	1	1	1	DF1710552	Film Cap., 1 $\mu F$ $\pm 20\%$ 250V
CE07	1	1	1	1	DD1530001	Ceramic Cap., 30pF $\pm 5\%$ 50V
CE08	1	1	1	1	DD1530001	Ceramic Cap., 30pF $\pm 5\%$ 50V
CE09	1	1	1	1	EA1070109	Electrolytic Cap., 100 $\mu F$ $\pm 10\%$ 10V
CE10	1	1	1	1	EA1070109	Electrolytic Cap., 100 $\mu F$ $\pm 10\%$ 10V
CE11	1	1	1	1	EA1060359	Electrolytic Cap., 10 $\mu F$ $\pm 10\%$ 35V
CE12	1	1	1	1	EA1060359	Electrolytic Cap., 10 $\mu F$ $\pm 10\%$ 35V
CE13	1	1	1	1	EV3350356	Electrolytic Cap., 3.3 $\mu F$ $\pm 20\%$ 35V
CE14	1	1	1	1	EV3350356	Electrolytic Cap., 3.3 $\mu F$ $\pm 20\%$ 35V
CE15	1	1	1	1	DF1582205	Film Cap., 0.0082 $\mu F$ $\pm 5\%$ 50V
CE16	1	1	1	1	DF1582205	Film Cap., 0.0082 $\mu F$ $\pm 5\%$ 50V
CE17	1	1	1	1	DF1582205	Film Cap., 0.0082 $\mu F$ $\pm 5\%$ 50V
CE18	1	1	1	1	DF1582205	Film Cap., 0.0082 $\mu F$ $\pm 5\%$ 50V
CE19	1	1	1	1	DF1539301	Film Cap., 0.039 $\mu F$ $\pm 5\%$ 50V
CE20	1	1	1	1	DF1539301	Film Cap., 0.039 $\mu F$ $\pm 5\%$ 50V
CE21	1	1	1	1	DF1539301	Film Cap., 0.039 $\mu F$ $\pm 5\%$ 50V
CE22	1	1	1	1	DF1539301	Film Cap., 0.039 $\mu F$ $\pm 5\%$ 50V
CE23	1	1	1	1	DF1668205	Film Cap., 0.0068 $\mu F$ $\pm 10\%$ 50V
CE24	1	1	1	1	DF1668205	Film Cap., 0.0068 $\mu F$ $\pm 10\%$ 50V
CE25	1	1	1	1	DF6527151	Film Cap., 270pF $\pm 5\%$ 50V
CE26	1	1	1	1	DF6527151	Film Cap., 270pF $\pm 5\%$ 50V
CE27	1	1	1	1	DF1510205	Film Cap., 0.001 $\mu F$ $\pm 5\%$ 50V
CE28	1	1	1	1	DF1510205	Film Cap., 0.001 $\mu F$ $\pm 5\%$ 50V
CE29	1	1	1	1	DF1633205	Film Cap., 0.0033 $\mu F$ $\pm 10\%$ 50V
CE30	1	1	1	1	DF1633205	Film Cap., 0.0033 $\mu F$ $\pm 10\%$ 50V
CE31	1	1	1	1	DD1650001	Ceramic Cap., 50pF $\pm 10\%$ 50V
CE32	1	1	1	1	DD1650001	Ceramic Cap., 50pF $\pm 10\%$ 50V
CE33	1	1	1	1	EV1050256	Electrolytic Cap., 1 $\mu F$ $\pm 20\%$ 25V
CE34	1	1	1	1	EV1050256	Electrolytic Cap., 1 $\mu F$ $\pm 20\%$ 25V
CE35	1	1	1	1	EV3350356	Electrolytic Cap., 3.3 $\mu F$ $\pm 20\%$ 35V
CE36	1	1	1	1	EV3350356	Electrolytic Cap., 3.3 $\mu F$ $\pm 20\%$ 35V
CE37	1	1	1	1	EQ4750161	Electrolytic Cap., 4.7 $\mu F$ $\pm 30\%$ 16V
CE38	1	1	1	1	EQ4750161	Electrolytic Cap., 4.7 $\mu F$ $\pm 30\%$ 16V
CE39	1	1	1	1	EA2270359	Electrolytic Cap., 220 $\mu F$ $\pm 10\%$ 35V
HE01	1	1	1	1	HC1000121	IC BA312
HE02	1	1	1	1	HC1000121	IC BA312
HE03	1	1	1	1	HT313272A	Transistor, 2SC1327 S, T
HE04	1	1	1	1	HT107212A	Transistor, 2SA721 S, T
HE05	1	1	1	1	HT313272A	Transistor, 2SC1327 S, T
HE06	1	1	1	1	HT107212A	Transistor, 2SA721 S, T
JE01	1	1	1	1	YP0600028	Plug
SE01	1	1	1	1	SR1005007	Rotary Switch
PH01	1	1	1	1	YD2916005 ZZ2928105	PH01 FILTER BOARD P.W. Board P.W. Board Assembly

U: For U.S.A.  
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REF.	Q'TY				PARTS NO.	DESCRIPTION
DESIG.	U	C	E	N		
RH01	1	1	1	1	RT0510414	Resistor, 100k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH02	1	1	1	1	RT0510414	Resistor, 100k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH03	1	1	1	1	RT0512314	Resistor, 12k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH04	1	1	1	1	RT0512314	Resistor, 12k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH05	1	1	1	1	RT0510514	Resistor, 1M $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH06	1	1	1	1	RT0510514	Resistor, 1M $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH07	1	1	1	1	RT0510414	Resistor, 100k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH08	1	1	1	1	RT0510414	Resistor, 100k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH09	1	1	1	1	RT0536214	Resistor, 3.6k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH10	1	1	1	1	RT0536214	Resistor, 3.6k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH11	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH12	1	1	1	1	RT0522514	Resistor, 2.2M $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RH13	1	1	1	1	GJ0533102	Resistor, 330 $\Omega$ 2W $\pm 5\%$
RH14	1	1	1	1	GJ0533102	Resistor, 330 $\Omega$ 2W $\pm 5\%$
RH15	1	1	1	1	GJ0515101	Resistor, 150 $\Omega$ 1W $\pm 5\%$
RH16	1	1	1	1	GJ0515101	Resistor, 150 $\Omega$ 1W $\pm 5\%$
CH01	1	1	1	1	DD1620103	Ceramic Cap., 200pF $\pm 10\%$
CH02	1	1	1	1	DD1620103	Ceramic Cap., 200pF $\pm 10\%$
CH03	1	1	1	1	DF1627305	Film Cap., 0.027 $\mu$ F 50V $\pm 10\%$
CH04	1	1	1	1	DF1627305	Film Cap., 0.027 $\mu$ F 50V $\pm 10\%$
CH05	1	1	1	1	DF1647305	Film Cap., 0.047 $\mu$ F 50V $\pm 10\%$
CH06	1	1	1	1	DF1647305	Film Cap., 0.047 $\mu$ F 50V $\pm 10\%$
CH07	1	1	1	1	DF1610305	Film Cap., 0.01 $\mu$ F 50V $\pm 10\%$
CH08	1	1	1	1	DF1610305	Film Cap., 0.01 $\mu$ F 50V $\pm 10\%$
PH07	4	4	4	4	344411805	Spacer, RH13, 14
JH01						
JH20	1	1	1	1	YP1000113	Plug
SH01	1	1	1	1	SP0405012	Push Switch
R004	1	1	1	1	RT0510414	Resistor, 100k $\Omega$ $\pm 5\%$ $\frac{1}{4}$ W
PT01	1	1	1	1	YD2916004	P.W. Board
	1	1			ZZ2916004	P.W. Board Assembly
			1	1	ZZ2916804	P.W. Board Assembly
RT01	1	1	1	1	RT0510214	Resistor, 1k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
RT02	1	1	1	1	RT0510214	Resistor, 1k $\Omega$ $\frac{1}{4}$ W $\pm 5\%$
CT01			1		DF1510205	Film Cap., 0.001 $\mu$ F 50V $\pm 5\%$
CT01	1	1			DF1522205	Film cap., 0.0022 $\mu$ F 50V $\pm 5\%$
CT02	1	1			DF1522205	Film Cap., 0.0022 $\mu$ F 50V $\pm 5\%$
CT02			1		DF1510205	Film Cap., 0.001 $\mu$ F 50V $\pm 5\%$
ST01	1	1	1	1	SP0605007	Push Switch
JT01						
JT23	23	23	23	23	YP1000113	Plug
R006	1	1	1	1	RT0510514	Resistor, 1M $\Omega$ $\pm 5\%$ $\frac{1}{4}$ W
R007	1	1	1	1	RT0510514	Resistor, 1M $\Omega$ $\pm 5\%$ $\frac{1}{4}$ W
S001	1	1	1	1	SR1006015	Rotary Switch
J005	1	1	1	1	YJ0100081	Jack, Dubbing In
J006	1	1	1	1	YJ0100098	Jack, Dubbing Out
0821	1	1	1	1	291616002	Bracket
S002	1	1	1		SP0201015	Push Switch, Power
S002				1	SP0201017	Push Switch, Power
J013	1	1	1	1	YJ0100098	Jack, Headphone
0816	1	1	1	1	291616003	Bracket

REF.	Q'TY				PARTS NO.	DESCRIPTION
DESIG.	U	C	E	N		
0818	2	2	2	2	51060306A	P.H.M. Screw, P3 x 6
R001	1	1	1	1	RM0254022	Variable Resistor, Vol. 250k $\Omega$
0934	1	1	1	1	287105102	Guide
1002	1	1	1	1	291626250	Pulley, K
1007	2	2	2	2	51100305A	B.H.M. Screw, B3 x 5
R002	1	1	1	1	RS0504002	Variable Resistor, Bal. 500k $\Omega$
0917	1	1	1	1	287127401	Reflector
0927	2	2	2	2	51480306A	B.H.M. Screw F, B3 x 6
0926	2	2	2	2	51100306A	B.H.M. Screw, B3 x 6
0922	1	1	1	1	288627101	Holder
0923	2	2	2	2	51570306B	P.H. Tapped Screw, P3 x 6
PZ01	1	1	1	1	YD2886016	P.W. Board
	1	1	1	1	ZZ2928116	P.W. Board Assembly
MZ01	1	1	1	1	IN1008007	Lamp
MZ02	1	1	1	1	IN1008007	Lamp
MZ03	1	1	1	1	IN1008007	Lamp
MZ04	1	1	1	1	IN1008007	Lamp
MZ05	1	1	1	1	IN1008007	Lamp
JZ01						
JZ10	10	10	10	10	YJ0800017	Socket
JZ11						
JZ14	4	4	4	4	YP1000113	Plug
0919	1	1	1	1	287127101	Holder
0920	2	2	2	2	51570306B	P.H. Tapped Screw, P3 x 6
PY01	1	1	1	1	YD2960102	P.W. Board
	1	1	1	1	ZZ2960302	P.W. Board Assembly
MY01	1	1	1	1	IN1006301	Lamp, Dolby 6.3V 40mA
MY02	1	1	1	1	IN1006301	Lamp, AM 6.3V 40mA
MY03	1	1	1	1	IN1006301	Lamp, FM 6.3V 40mA
MY04	1	1	1	1	IN1006301	Lamp, Phono 6.3V 40mA
MY05	1	1	1	1	IN1006301	Lamp, Aux. 6.3V 40mA
MY06	1	1	1	1	IN1006301	Lamp, Tape 1 6.3V 40mA
MY07	1	1	1	1	IN1006301	Lamp, Tape 2 6.3V 40mA
MY08	1	1	1	1	IN1012091	Lamp, Stereo 12V 40mA
JY01						
JY15	15	15	15	15	YP1000113	Plug
R009	1	1	1	1	GF0522014	Resistor, 22 $\Omega$ $\pm 5\%$ $\frac{1}{4}$ W
R010	1	1	1	1	GF0522014	Resistor, 22 $\Omega$ $\pm 5\%$ $\frac{1}{4}$ W
R011	1	1	1	1	GF0547014	Resistor, 47 $\Omega$ $\pm 5\%$ $\frac{1}{4}$ W
M003	1	1	1	1	IN1008007	Lamp, Meter
M004	1	1	1	1	IN1008007	Lamp, Meter
J008	1	1	1	1	YJ0800019	Socket
J009	1	1	1	1	YJ0800019	Socket
1103	1	1	1	1	288627102	Holder
1104	2	2	2	2	51570306B	P.H. Tapped Screw, P3 x 6
1022	1	1	1	1	288627401	Reflector

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REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
1026	1	1	1	1	288926251	Pulley, K
1032	2	2	2	2	51100306A	B.H.M. Screw, B3 x 6
1033	2	2	2	2	54050300R	T.L. Washer, OR
1107	2	2	2	2	51480306A	B.H.M. Screw F, B3 x 6
1303	1	1	1	1	285310650	Bearing, K
1308	1	1	1	1	51640410D	Set Screw, C.P.
1309	1	1	1	1	54040402N	Spring Washer
1310	1	1	1	1	53110403E	Hexagon Nut
8536	1	1	1	1	62030039W	Lug
J027	1	1	1	1	YJ0600019	Socket
0830	1	1	1	1	291710903	Shield
0831	1	1	1	1	291512003	Insulator
0832	1	1	1	1	288912005	Insulator
0503	1	1			291716001	Bracket
8937				1	296016025	Bracket
0513	1	1			145525903	Bushing
0518			2		54050300R	T.L. Washer, OR
0519			2		51060316A	P.H.M. Screw, P3 x 16
0520			2		53110303A	Hexagon Nut
0523	4	4			51060308S	P.H.M. Screw, P3 x 8
0524	4	4			53110303A	Hexagon Nut
0525	4	4			54050300R	T.L. Washer, OR
0530	1	1	1	1	54050400R	T.L. Washer, OR
0533	4	4	4	4	51060308S	P.H.M. Screw, P3 x 8
0534	4	4	4	4	53110303A	Hexagon Nut
0602	8	8	8	8	51060308S	P.H.M. Screw, P3 x 8
0603	8	8	8	8	53110303A	Hexagon Nut
0606	2	2	2	2	51060306S	P.H.M. Screw, P3 x 6
0616	1	1	1	1	145525903	Bushing
0620	3	3	3	3	51100306S	B.H.M. Screw, B3 x 6
8936	1	1	1	1	138200503	Clamper
8938				1	288286102	Label
9036				2	51100308S	B.H.M. Screw, B3 x 8
9037				2	53110303A	Hexagon Nut
9038				2	54050300R	T.L. Washer, OR
J001	1	1			YT0101003	Terminal, Ground
J002	1	1	1	1	YT0201009	Terminal, Quad Out 1P
J003	1	1	1	1	YT0204008	Terminal, Phono Aux. 4P
J004	1	1	1	1	YT0208006	Terminal, Tape 1,2 8P
J014	1	1	1	1	YT0304012	Terminal, Main SPK
J015	1	1	1	1	YT0304012	Terminal, Remote SPK
J020	1	1			YJ0800012	Socket, Fuse Holder
J021	1	1			YJ0400048	Socket, Outlet
J022	1	1			YJ0400048	Socket, Outlet
C009				1	DF1722380	Film Cap., 0.02μF 1000V
J021				1	YJ0400056	Socket, Outlet
J022				1	YJ0400056	Socket, Outlet
G001	1				BF1040004	Printed Comp.
F001	1	1			FS1050004	Fuse
F002		1			FS2050091	Fuse
F001				1	FS1040080	Fuse
F001				1	FS1040090	Fuse
G001		1			BF1040003	Printed Comp.

REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
W001	1	1			YC0240022	AC Cord
J024				1	YP0400056	Socket, Inlet
J025			1	1	YJ0800022	Socket, Fuse Holder
J026			1	1	YT0101005	Terminal
J027				1	YT0101005	Terminal
L001	1	1	1	1	LF1120038	Ant. Coil, AM Ant.
L002	1	1	1	1	LC1332002	Choke Coil, 3.3μH
0705	1	1	1	1	281927103	Holder
0706	1	1	1	1	257816052	Bracket, K
0711	2	2	2	2	51060310S	P.H.M. Screw, P3 x 10
0712	2	2	2	2	54050300R	T.L. Washer, OR
0713	2	2	2	2	53110303E	Hexagon Nut
0716	2	2	2	2	51060310S	P.H.M. Screw, P3 x 10
0718	2	2	2	2	53110303E	Hexagon Nut
PU01	1	1	1	1	YD2916007	PU01 ANT. MUTING BOARD
	1	1	1	1	ZZ2928107	P.W. Board Assembly
RU04	1	1	1	1	RK0203032	Variable Resistor, 20kΩ (B)
RU05	1	1	1	1	RK0503010	Variable Resistor, 50kΩ (B)
LU01	1	1	1	1	LB3007526	Balance Coil, 75Ω ~ 300Ω
LU02	1	1	1	1	LC1154002	Choke Coil, 150μH
JU01	1	1	1	1	YT0304014	Terminal, 4P (AM,FM Ant.)
JU02	1	1	1	1	YP1000120	Plug
JU03	1	1	1	1	YP1000120	Plug
JU04	1	1	1	1	YP1000113	Plug
JU05	1	1	1	1	YP1000113	Plug
JU06	1	1	1	1	YP1000113	Plug
JU07	1	1	1	1	YP1000113	Plug
0605	1	1	1	1	291616005	Bracket
R008	1	1	1	1	RT0543214	Resistor, 4.3kΩ ±5% ¼W
R005	1	1			RC1022512	Resistor, 2.2MΩ ±10% ½W
9636	1	1	1	1	62030039W	Lug
C001	1	1	1	1	DK1810301	Ceramic Cap., 0.01μF 50V
C007	1	1	1	1	DK1810301	Ceramic Cap., 0.01μF 50V
0531	1	1	1	1	62041760W	Lug
C006	1	1	1	1	DK1810301	Ceramic Cap., 0.01μF ±20% 50V
2610	1	1	1	1	62030039W	Lug
J010	1	1	1	1	YT0204011	Terminal, Pre-main
J007	1	1	1	1	YL0103018	Terminal, 3P
C002	1	1	1	1	DK1840301	Ceramic Cap., 0.04μF 50V
L003	1	1	1	1	LC1332002	Choke Coil, 3.3μH
2705	2	2	2	2	138200503	Clamper
2719	1	1	1	1	138200503	Clamper
2709	1	1	1	1	121000501	Clamper
2716	1	1	1	1	121000501	Clamper
2123	1	1	1	1	282100501	Clamper
1603	1	1	1	1	291630201	Dial
1606	1	1	1	1	285610701	Sheet



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REF.	Q'TY				PARTS NO.	DESCRIPTION
	DESIG.	U	C	E	N	
H007		1	1	1	1	HD2001705 Diode S5188
C008		1	1	1	1	DK1810351 Ceramic Cap., 0.01μF 500V
2118		1	1	1	1	292826702 Heatsink
2120		1	1	1	1	51100314E B.H.M. Screw, B3 x 14
2121		1	1	1	1	54040302N Spring Washer
J023				1	1	BY0311001 Terminal
PR01			1			<b>PR01 FUSE BOARD</b>
			1			YD2960103 P.W. Board
						ZZ2960303 P.W. Board Assembly
JR01				6		YJ0800020 Jack
JR06						
JR07				6		YP1000113 Plug
JR12						
PR01				1		<b>PR01 FUSE BOARD</b>
				1		YD2975001 P.W. Board
						ZZ2975001 P.W. Board Assembly
JR07				6		YP1000113 Plug
JR12						
JR01				6		YJ0800020 Socket
JR06						
F003		1				FS2030090 Fuse, 3A
J027		1				YL0103018 Terminal, 3P
0221		4	4	4	4	293205701 Leg
0222		4	4	4	4	51440410S B.H.M. Screw F S, B4 x 10
0431			2			951022101 Label
0432			1			951061105 Label
2751			1			951061103 Label
0510		6	6	6	6	51100306S B.H.M. Screw, B3 x 6
0907		10	10	10	10	51570306B P.H. Tapped Screw, P3 x 6
1713		4	4	4	4	51570306B P.H. Tapped Screw, P3 x 6
2008		8	8	8	8	51570306B P.H. Tapped Screw, P3 x 6
2034		1	1	1	1	291610903 Shield
2035		3	3	3	3	51570306B P.H. Tapped Screw, P3 x 6
2107		1	1	1	1	51570306S P.H. Tapped Screw, P3 x 6
2109		3	3	3	3	51100306S B.H.M. Screw, B3 x 6
2114		4	4	4	4	51570306B P.H. Tapped Screw, P3 x 6
2115		1	1	1	1	291616006 Bracket
2116		1	1	1	1	51570408B P.H. Tapped Screw, P4 x 8
2117		1	1	1	1	54050400R T.L. Washer, OR
2119		2	2	2	2	51570306B P.H. Tapped Screw, P3 x 6
2122		1	1	1	1	292812001 Insulator
2128		4	4	4	4	51490514A B.H.M. Screw F S, B5 x 14
2129		4	4	4	4	53110501A Hexagon Nut
2130		4	4	4	4	54040602N Spring Washer
2131		2	2	2	2	291616007 Bracket
2203		1	1	1	1	292810901 Shield
2204		4	4	4	4	285610102 Support
2205		1	1	1	1	281810107 Support
2206		3	3	3	3	51060304E P.H.M. Screw, P3 x 4
2207		2	2	2	2	50020305B R.H. Screw, R3 x 5
2208		2	2	2	2	59030805P Washer
2213		2	2	2	2	51100306S B.H.M. Screw, B3 x 6
2214		1	1	1	1	62030039W Lug
2215		2	2	2	2	292810101 Support
2216		2	2	2	2	54020301E Flat Washer
2217		1	1	1	1	291612005 Insulator
2223		2	2	2	2	288616011 Bracket
2224		2	2	2	2	288612009 Insulator
2225		4	4	4	4	51570306B P.H. Tapped Screw, P3 x 6
2303		4	4	4	4	288810102 Support
2313		2	2	2	2	288810102 Support
2314		2	2	2	2	51100306S B.H.M. Screw, B3 x 6
2323		2	2	2	2	291610101 Support
2415				1	1	285416003 Bracket
2416				2	2	51570305B P.H. Tapped Screw
2417				2	2	51100306S B.H.M. Screw
2418				1	1	291712002 Insulator
2425		1	1	1	1	138200503 Clamper
2428		1	1	1	1	51570306B P.H. Tapped Screw, P3 x 6
2429		1	1	1	1	54050300R T.L. Washer, OR
2503		1	1	1	1	291710550 Chassis, K
2513		5	5	5	5	288600502 Clamper
2514		5	5	5	5	288600504 Clamper
2521		2	2	2	2	292810102 Support
2522		2	2	2	2	54040402N Spring Washer
2530		2	2	2	2	288925901 Bushing
2532		1	1	1	1	281805603 Buffer
2607		3	3	3	3	51570306B P.H. Tapped Screw, P3 x 6
2611		1	1	1	1	51570306B P.H. Tapped Screw, P3 x 6
2614		1	1	1	1	62030039W Lug
2615		1	1	1	1	51570306B Lug
2705		2	2	2	2	51570305B P.H. Tapped Screw, P3 x 5
2710		1	1	1	1	51570306B P.H. Tapped Screw, P3 x 6
C004		1	1	1	1	EC1090502 Electrolytic Cap., 10000μF 50V
C005		1	1	1	1	EC1090502 Electrolytic Cap., 10000μF 50V
L004		1	1			TS6140501 Power Transformer
L004				1	1	TS6140502 Power Transformer
W001				1		YC0190003 AC Cord
FR01				1		FS1035080 Fuse, 4A
FR02				1		FS1010007 Fuse, 1A
FR03				1		FS1010007 Fuse, 1A
FR01				1		FS1024080 Fuse, 3.5A SEMKO
FR02				1		FS1010080 Fuse, 1.0A SEMKO
FR03				1		FS1010080 Fuse, 1.0A SEMKO
0115		4	4	4	4	52017039J Bolt
0120		1	1	1	1	291605501 Collar

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REF. DESIG.	Q'TY				PARTS NO.	DESCRIPTION
	U	C	E	N		
0207	4	4	4	4	51480406S	B.H.M. Screw F, B4 x 6
0216	10	10	10	10	51100406S	B.H.M. Screw, B4 x 6
0303	1	1	1	1	290415404	Knob, Power Sw.
0304	1	1	1	1	285015401	Knob, Slide Vol.
0305	10	10	10	10	288615403	Knob, Push Sw.
0307	3	3	3	3	281815403	Knob
0402	1				296026501	Indicator, Name Plate
0403		1			296026502	Indicator, Name Plate
0404			1		296026503	Indicator, Name Plate
3452				1	296026508	Indicator, Name Plate
0410	2	2	2	2	51060305S	P.H.M. Screw, P3 x 5
0411	1	1	1	1	257886101	Label, UL Caution
0412	1	1	1	1	293286101	Label, Do not remove..... See Marking.....
0414	1	1	1	1	250626506	Indicator, Do not use as .....
0419		1			951091101	Label, LL No.
0420		1			282186102	Label, Fuse Caution
0421	1				951091102	Label, Factory No.
0424	1				951110102	Label, UL
0430	1	1	1	1	288686101	Label, on Power Transformer
3451	1				281886101	Label, FTC
0819	1	1	1	1	289610701	Sheet, Headphone
0823	2	2	2	2	289610701	Sheet, Dubbing
1410	1	1	1	1	285011202	Shaft
1411	1	1	1	1	54040402N	Spring Washer
1612	1	1	1	1	291526901	Protector
1613	2	2	2	2	51570305B	P.H. Tapped Screws, P3 x 5
1618	1	1	1	1	291626901	Protector
1619	2	2	2	2	51100305S	B.H.M. Screw, B3 x 5
1624	1	1	1	1	281912005	Insulator
1707	1	1	1	1	288910903	Shield
1708	2	2	2	2	51100306S	B.H.M. Screw, B3 x 6
1709	6	6	6	6	291612002	Insulator
1715	2	2	2	2	288912006	Insulator
1910	1	1	1	1	56382540G	Eyelet
2305	1	1	1	1	291610902	Shield
2306	4	4	4	4	51100304S	B.H.M. Screw, B3 x 4
2316	1	1	1	1	291610901	Shield
2317	2	2	2	2	51100304S	B.H.M. Screw, B3 x 4
3571	1	1	1	1	297510901	Shield
2324	2	2	2	2	51100304S	B.H.M. Screw, B3 x 4
3572	1	1	1	1	297516001	Bracket
3573	1	1	1	1	290825901	Bushing
2802	1				296085101	Instructions, Set
2806		1	1	1	296085131	Instructions, Set
2807		1			288685110	Instructions, Leaflet
3752				1	296985129	Instructions, Leaflet
2809	1				296085601	Schematic
2810			1		296085602	Schematic
2811		1			296085603	Schematic
3753				1	296085605	Schematic
2814	1	1	1		281885108	Instructions, Accessories
2816				1	291585102	Instructions, Accessories
2817	1	1	1		281885104	Instructions, Packing
2824	1	1		1	257785401	Guarantee Card
2825	1	1		1	257785102	Instructions
2826	1				257781301	Envelope
2827		1			291881301	Envelope
3751	1				281885402	Guarantee Card
2831			1	1	281881301	Envelope
2902	1	1	1		296080101	Packing Case, Inner
2903	1	1	1		296080111	Packing Case, Outer
3851				1	296080103	Packing Case, Inner
3852				1	296080113	Packing Case, Outer
2908	1	1	1	1	288680302	Cushion, Upper
2909	1	1	1	1	288680303	Cushion, Lower
3853				1	291580701	Reinforcing
2912	1	1	1	1	901483838	Polyethylene Bag, Set
2914	1	1	1	1	901302501	Polyethylene Bag, Printed Matter
2915	1	1	1	1	901302501	Polyethylene Bag, Accessories
2916	1	1	1	1	291810713	Sheet
2917	1	1	1		102980401	Sleeve
2918				1	956000004	Hang Tag
2919	1	1	1	1	273182101	Silicagel
2920	1	1	1	1	281905601	Buffer
2922	4				952281501	Serial No. Card
2923		4			952301512	Serial No. Card
2924			4		952301511	Serial No. Card
2925				4	952301513	Serial No. Card
3854				1	288286101	Label
2931	1	1	1	1	ZA0200007	Ext. Antenna
3855		2			951090102	Label

## SERVICE INFORMATION FOR EUROPEAN MODEL

The information contained herein includes rear panel and main chassis component locations, voltage conversion and FTZ regulation, schematic diagram and technical specifications. For the alignment procedures, test equipment, and repairing hints, refer to the original service manual.

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### TECHNICAL SPECIFICATIONS

#### Amplifier Section:

RATED POWER OUTPUT .....	50 Watts per channel, Continuous Average Power, both channels driven.
Power Band .....	20 Hz to 20kHz
Total Harmonic Distortion .....	0.25%
Load Impedance .....	8 $\Omega$
Intermodulation Distortion at Rated Power .....	0.25%
Damping Factor .....	55
Frequency Response .....	20 Hz to 20 kHz $\pm 0.5$ dB

#### Preamplifier Sections:

##### Phono:

Dynamic Range .....	96 dB
NOTE: Dynamic Range is the ratio in dB of the phono input overload to equivalent input noise.	
Equivalent Input Noise .....	1.5 $\mu$ V
Input Overload .....	100 mV
Sensitivities (for rated power output)	
Phono .....	1.8 mV
Tape .....	180 mV
Main In .....	1.5 V
Frequency Response (phono) .....	30 Hz to 15 kHz $\pm 1.0$ dB

Input Impedances	
Phono .....	47 k $\Omega$
Aux or Tape .....	100 k $\Omega$
Main In .....	30 k $\Omega$
Tape Output Level .....	775 mV
Ref: 7.75 mV at phono input	
Signal to Noise Ratio	
Aux Input .....	85 dB
Phono Input .....	75 dB
Tone Controls	
Bass: 100 Hz .....	$\pm 10$ dB
Tone Mode at 250 Hz .....	$\pm 3$ dB
Mid: 700 Hz .....	$\pm 7.5$ dB
Treble: 10 kHz .....	$\pm 10$ dB
Tone Mode at 4 kHz .....	$\pm 3$ dB

#### FM Tuner Section:

IHF Usable Sensitivity .....	2.5 $\mu$ V
Sensitivity (DIN) .....	2.1 $\mu$ V
Selectivity (alternate carrier) .....	60 dB
Quieting Slope	
RF Input for 30 dB Quieting .....	1.9 $\mu$ V
Quieting at 5 $\mu$ V RF Input .....	55 dB
Quieting at 10 $\mu$ V RF Input .....	60 dB
Quieting at 50 $\mu$ V RF Input .....	70 dB
Total Harmonic Distortion	
Mono: .....	0.2%
Stereo: .....	0.4%
Capture Ratio .....	1.5 dB
Stereo Separation at 1 kHz .....	40 dB
Spurious Rejection .....	95 dB
Image Rejection .....	70 dB
IF Rejection .....	90 dB
AM Suppression .....	55 dB

#### AM Tuner Section:

Sensitivity .....	20 $\mu$ V
-------------------	------------

#### General:

Power Requirements .....	110/120/220/240 V AC, 50 Hz
Power Consumption at rated	
output, both channels operating .....	220 Watts
Idling Power (Volume Control at zero) .....	35 Watts
Dimensions:	
Panel Width .....	44.1 cm
Panel Height .....	13.7 cm
Depth .....	36.5 cm
Weight:	
Unit Alone .....	15.3 kg
Packed for Shipment .....	18.3 kg



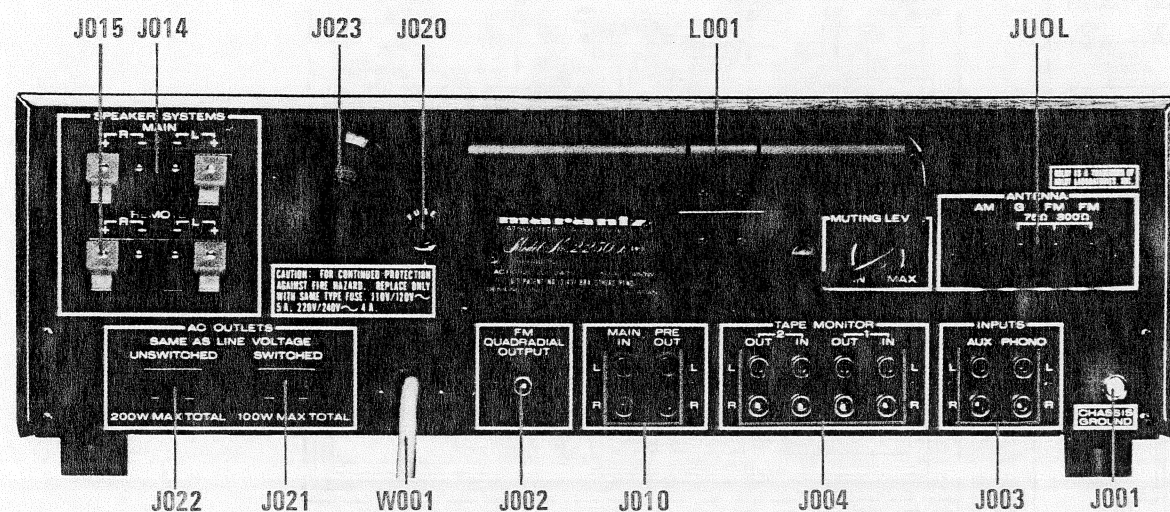


Figure 38. Rear Panel Adjustments and Component Locations for European Model

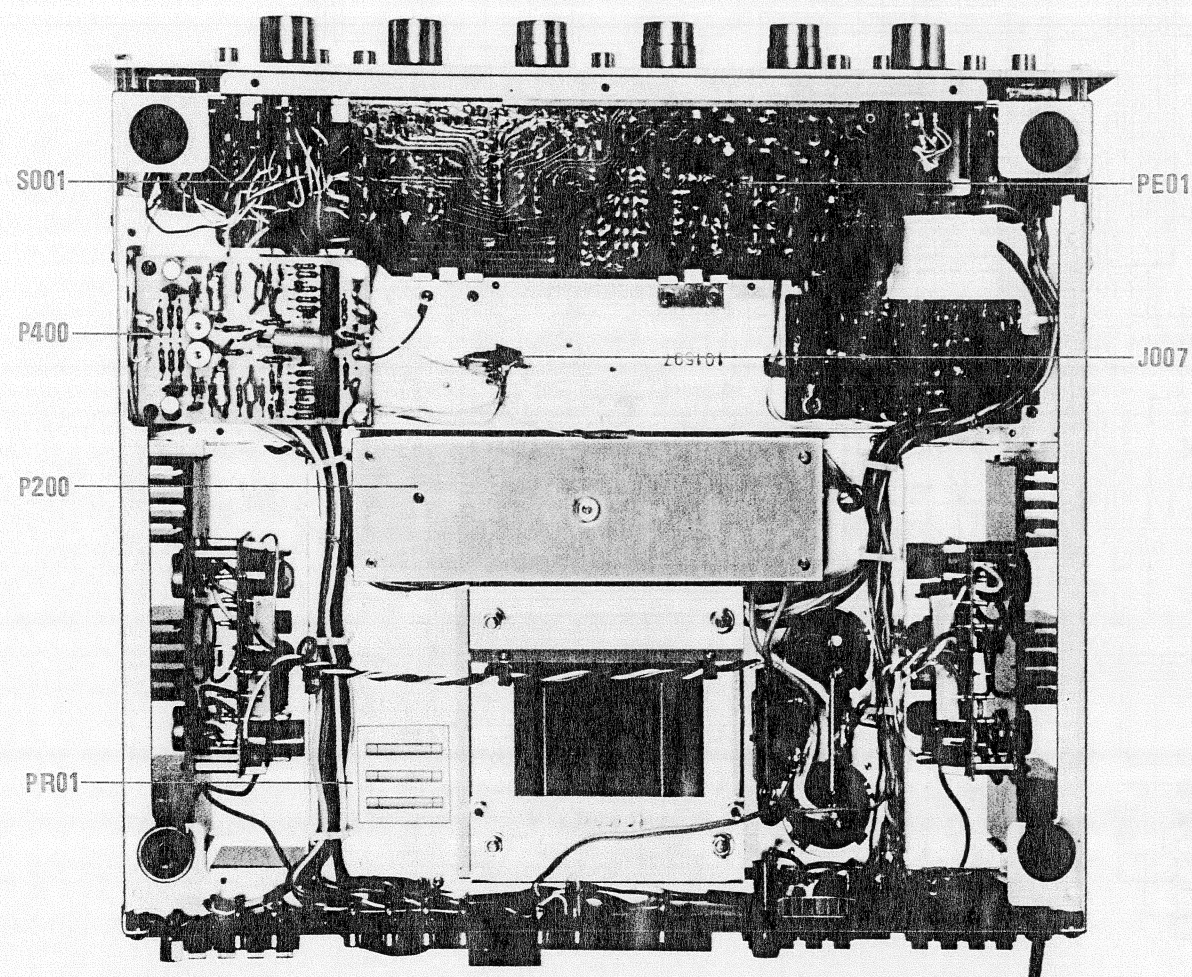


Figure 39. Main Chassis Component Locations (Bottom View) for European Model

#### VOLTAGE CONVERSION

This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.

To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

**CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.**

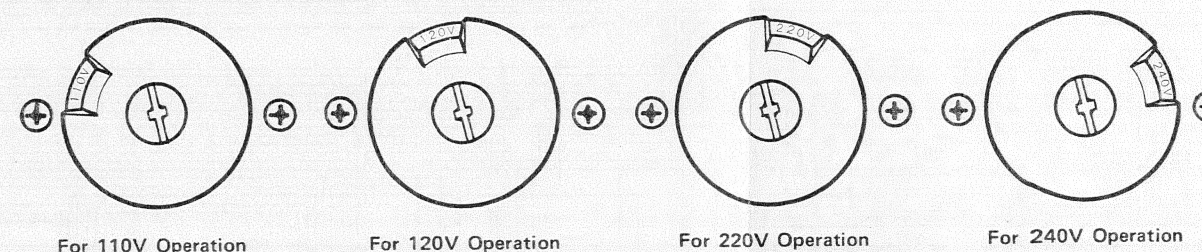
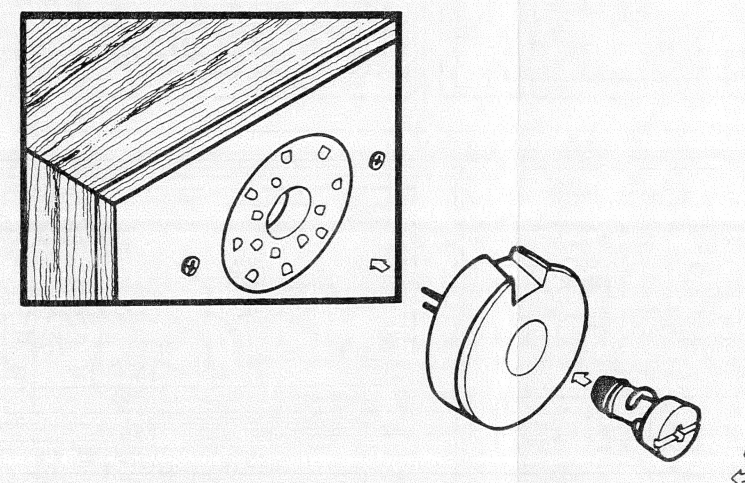


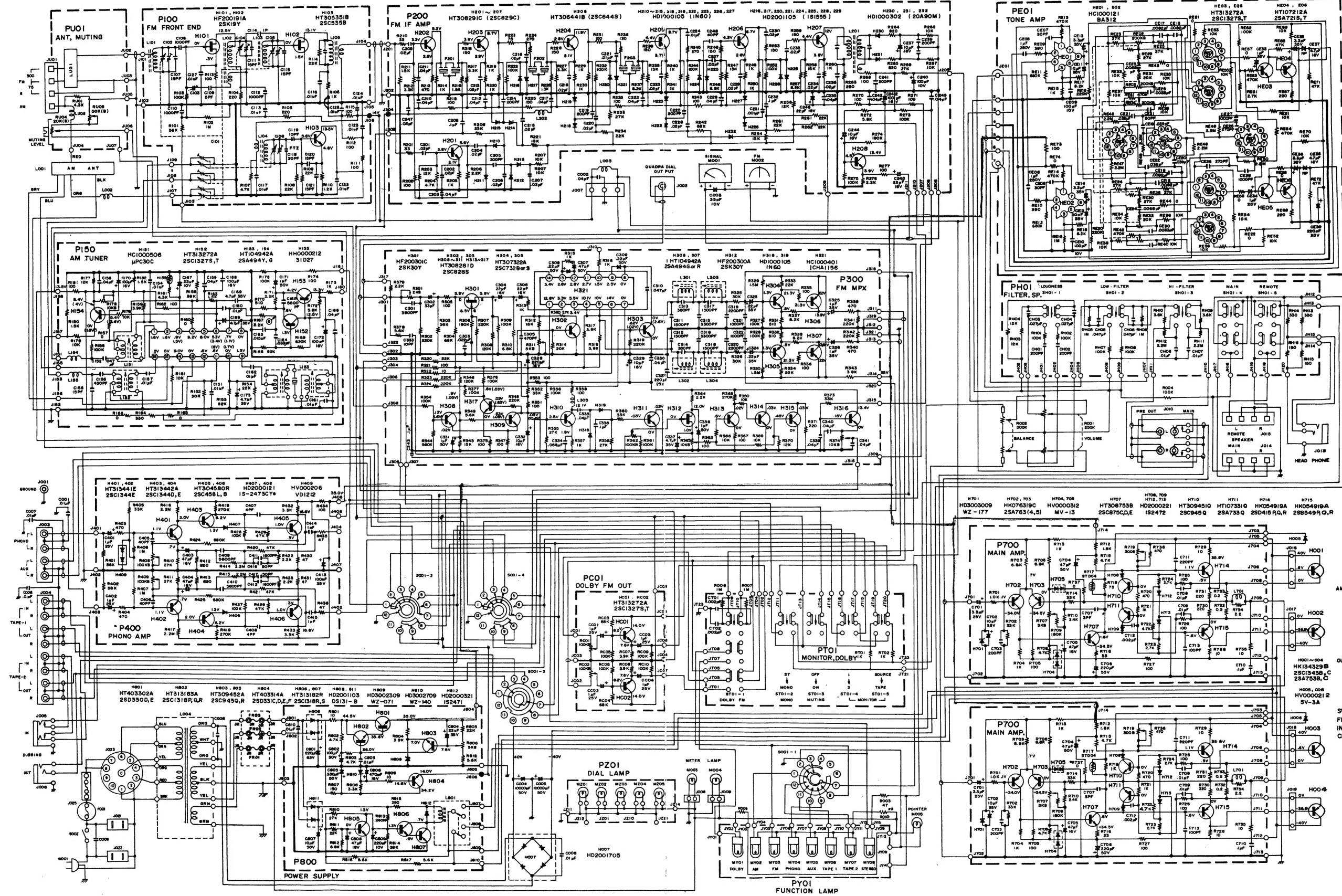
Figure 40. Voltage Conversion Chart

Instruction for the use in the range other than specified in FTZ codes

Achtung für die Leute, die in dem Gebiet wohnen,  
wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen ausserhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangsbereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorschule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.





**Figure 41. Schematic Diagram for European Model**